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## THE NATIONAL MENTAL HEALTH PROGRAM<sup>1</sup>

### —A PROGRESS REPORT—

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A year ago the State mental health authorities met with the State and Territorial health officers for the first time to discuss ways of working together to improve the mental health of the Nation. By that time Congress had passed the National Mental Health Act, but there were no funds to implement it and that meeting was confined largely to a discussion of plans for carrying out the provisions of the Act when funds were appropriated.

Today, less than 5 months after funds became available to put the Act into operation, a vigorous, nationwide mental health program has been initiated, thanks to the enthusiastic participation of the State authorities and other interested organizations and individuals. This presentation is essentially a progress report of your mental health programs—of what has been accomplished by the States in implementing the plans envisaged at the last meeting.<sup>2</sup>

#### STATE MENTAL HEALTH AUTHORITIES

To begin with, in July 1947 Congress appropriated \$3,000,000 for grants-in-aid to States to assist them in establishing and improving the mental health services in their communities. Each State was asked to designate a State mental health authority, the one agency with which the Public Health Service will deal in this program. All States have now done so. In 32 States and Territories the mental health authority is the State health department. In others it is the department of welfare, of institutions, of mental hygiene, or some other State agency.

To receive a grant the State mental health authority must submit a plan and budget, covering the entire State, for approval by the Surgeon General. To date, 42 States and Territories<sup>3</sup> have submitted plans which have been approved by the Surgeon General (see figure 1). Of these, 21 had no State mental health program prior to July 1947.

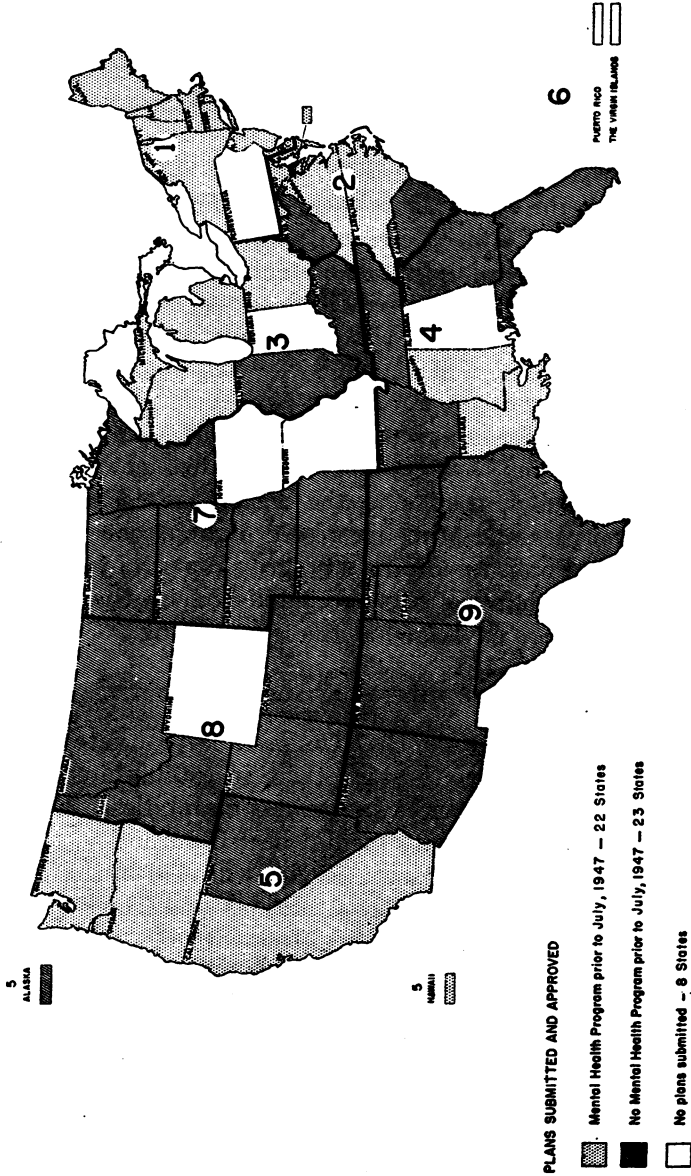
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<sup>1</sup> Presented at the State and Territorial health officers meeting Washington, D. C., December 2, 1947.

<sup>2</sup> Corrected to January 1, 1948.

<sup>3</sup> 45 States and territories as of April 15, as shown in figure 1.

STATES PARTICIPATING IN THE NATIONAL MENTAL HEALTH PROGRAM,  
AS OF APRIL 15, 1948



## STATE PLANS

As is to be expected, the mental health programs planned by the various States differ widely, depending upon the degree of development of mental health services in a State prior to the Act, the availability of personnel, the accessibility of teaching centers, and many other factors. Despite the disparity among States, most of the plans submitted contained provisions for all or some of the following mental health activities: Central administrative services; training; clinics; professional services; and preventive and educational activities (see figure 2).

*Central Administrative Services*

Thirty-five States and Territories have provided for central administrative services. These include such activities as development and maintenance of a roster of mental health facilities (28 States) and of the mentally handicapped (18 States); inspection and licensing of hospitals and other mental health facilities (14 States); and studies of special problems related to mental health (30 States).

*Training*

The dearth of mental health facilities in many sections of the country is due in large part not only to the nation-wide shortage of trained mental health personnel but also to their unequal distribution, since most of them are concentrated, by and large, in metropolitan centers.

This problem can be solved in part through the States' own efforts. States may use grant-in-aid funds to train persons who, upon completion of their training, will spend a substantial portion of their time in mental health activities not related to patients in institutions.

It is good to note that States are taking advantage of this opportunity. Thirty-six States and Territories have included in their plans provisions for such training. Funds are being used by these States to train psychiatrists (they may not be used for undergraduate medical training), and psychiatric social workers, clinical psychologists and psychiatric nurses, to work in the State mental health program.

A number of States are also holding institutes and seminars in mental hygiene for public health nurses, and some are paying their expenses to attend institutes in other States. A few States are planning mental hygiene seminars and brief courses of study for other professional personnel employed by the State.

*Clinics*

Thirty-six of the 42 States and Territories which have submitted plans are initiating or expanding community mental health clinics. Twenty-nine will furnish all-purpose clinics available to every segment of the population; 27, clinics for children; and 25, clinics for adults.

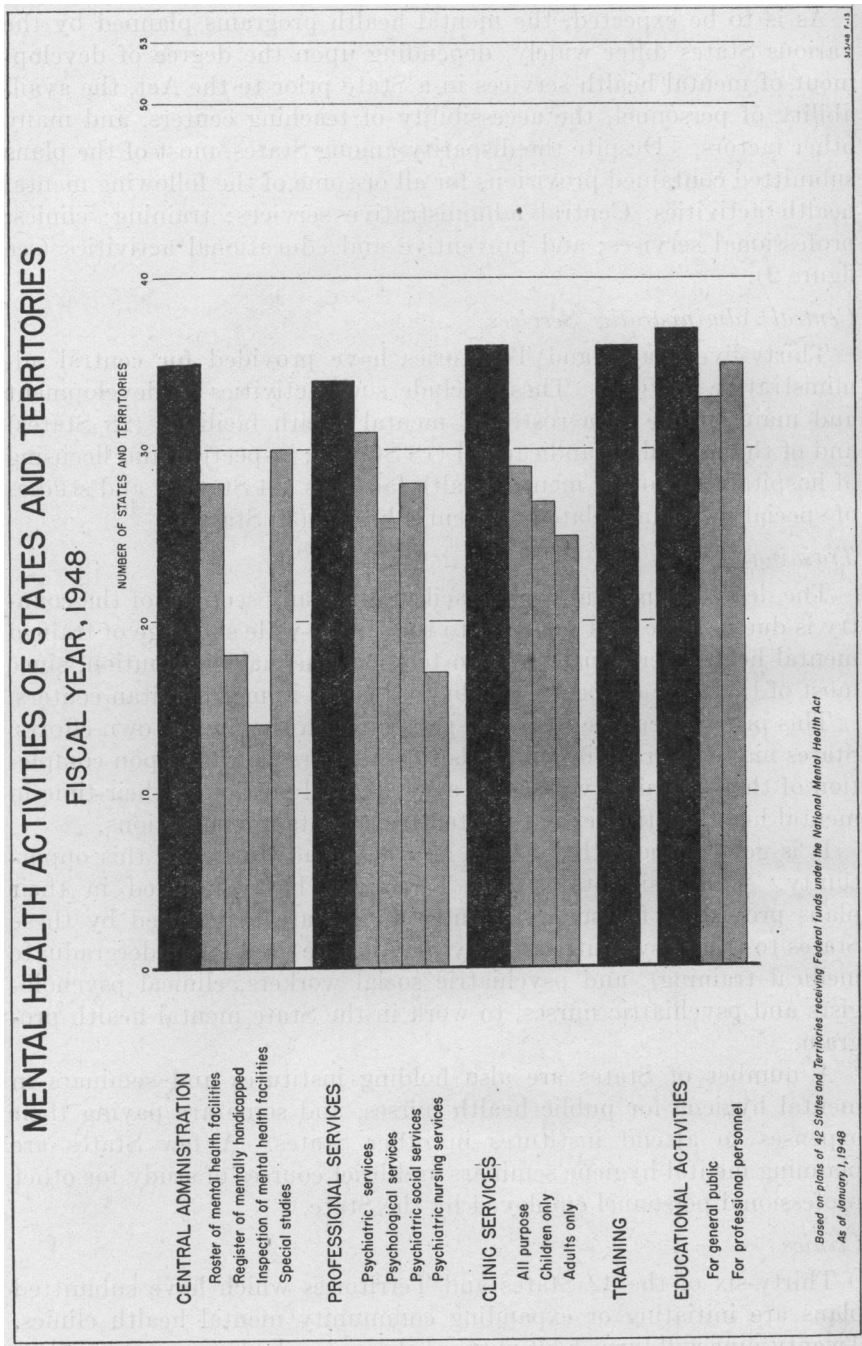


FIGURE 2

A few of the specialized clinics (for children or adults) will furnish only diagnostic and consultative services.

The auspices under which clinics will operate vary. Many of the States are organizing clinics under the State health department or some other State agency. Some are conducting clinics under the auspices of their State hospital. A few aim to make mental health services more widely available by subsidizing private non-profit clinics.

Since the scope and functions of a clinic were described in some detail last year, they will not be repeated here. It should be reiterated, however, that the success of a clinic depends upon the active support of the community; therefore, the cooperation of mental hygiene societies and other community groups, as well as of public and professional organizations, should be obtained in planning for and sponsoring a clinic.

#### *Professional Services*

While clinics are a necessary part of a mental health program, they are by no means the most important element. Moreover, the operation of a clinic requires more trained personnel than many States can muster at this time. To make the widest use of the limited personnel available, 34 States and Territories are using Federal funds to employ mental health personnel who can serve, either part-time or full-time, in a consultant, supervisory, or service capacity to State and community health and welfare agencies. Thirty-one States and Territories plan to provide psychiatric service; 26, psychological service; 28, psychiatric social service; 17, psychiatric nursing service. A number of States plan to provide direct mental health services to patients by a public health nurse.

#### *Preventive and Educational Activities*

Education of the public to the facts of mental health and mental illness is essential to the success of a mental health program. State and local health and welfare agencies can do much to disseminate these facts. They can also help by cooperating with their State and local mental hygiene societies and other interested citizen groups in their educational campaigns.

It is encouraging to note that 37 States and Territories have included in their plans provisions for preventive and educational activities. These include mental health programs in schools, college and community groups, such as parent-teacher associations, women's clubs, and civic organizations; the education of mothers to mental health principles in pre-natal and well-baby clinics; institutes for public health nurses, teachers, social workers, ministers, probation officers, and others who deal with people in a professional capacity; and dissemination of mental health information to the general public.

BUDGETS <sup>4</sup>

The total amount budgeted by the States thus far for these mental health activities is \$1,965,519 (see figure 3). Sixty-two percent of the funds in the approved budgets have been allocated by the States for mental health activities to be carried on directly by the State mental health authorities. These include 42 percent for clinics, 17 percent for professional services, 2 percent for central administration, and 1 percent for preventive and educational activities.

Twenty-four percent of the approved budgets have been allocated for mental health activities financially supported, but not directly operated, by the State mental health authority. These include 20 percent for clinics, 2 percent for professional services, and 2 percent for preventive and educational activities. And 14 percent has been allocated for the training of personnel to work in the State and community mental health programs.

## THREE STATE PROGRAMS

To give a concrete picture of the various ways in which grant-in-aid funds are being used, a brief summary is presented of three State programs: Virginia, California, and Montana.

Virginia has set up a comprehensive program for a State-wide system of mental health services. The State has been divided into 13 areas, in each of which at least one mental hygiene clinic will be located. A psychiatrist and a psychologist will serve two or three clinics, traveling from one area to another, while a psychiatric social worker will remain in each area to act as case consultant to local agencies, in addition to carrying the case-load of the clinic. Statistical reports from each clinic will be sent to a central office where a roster of patients will be kept.

As the need becomes apparent and as personnel become available the clinic teams will be both enlarged and increased in number, with possibly 75 clinics as the eventual goal. Local participation, financial and otherwise, is required in the operation of area programs.

At the present time Virginia is conducting nine mental hygiene clinics, two of which are part-time, under the auspices of the State hospital system. Federal funds will be used this year to expand the clinics now in operation and to support the establishment of two new ones. The State hopes to increase its mental health staff to 29—4 psychiatrists, 9 psychiatric social workers, 5 psychologists, and 11 clerical workers.

A small amount of the allotment will be used for central administrative activities, including the maintenance of a roster of the mentally handicapped and of the mental health resources in the State, and the licensing of mental health facilities.

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<sup>4</sup> Corrected to January 1, 1948.

This plan represents the initial steps in a continuing, long-range program covering the entire State. The program is centrally controlled, the State mental health authority having direct supervision over the various out-patient clinics and services within the State.

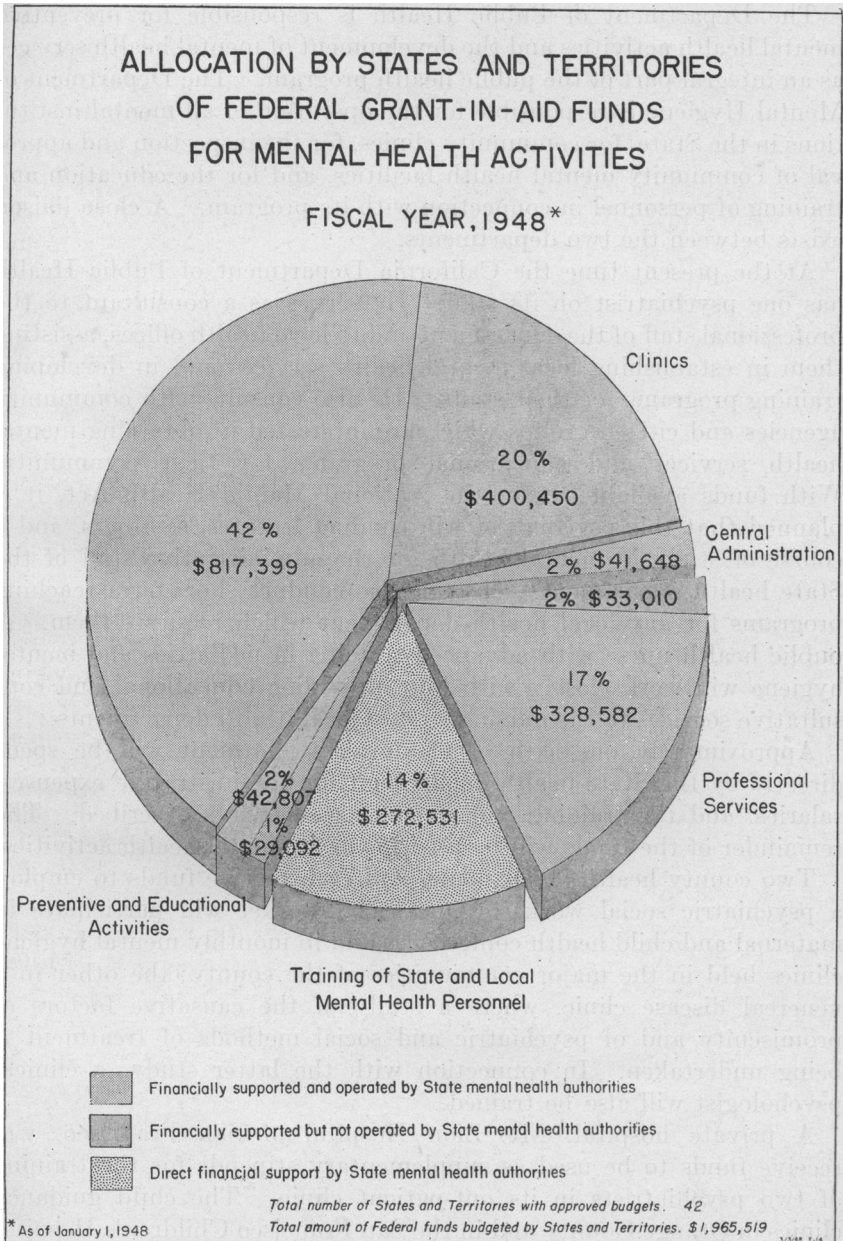


FIGURE 3

In contrast to Virginia's program is that of California. Mental health activities in California are conducted by two State agencies, the Department of Mental Hygiene and the Department of Public Health. The latter has been designated as the State mental health authority.

The Department of Public Health is responsible for preventive mental health activities and the development of mental health services as an integral part of the public health program. The Department of Mental Hygiene is responsible for the operation of all mental institutions in the State, for community clinics, for the inspection and approval of community mental health facilities, and for the education and training of personnel in connection with its program. A close liaison exists between the two departments.

At the present time the California Department of Public Health has one psychiatrist on its staff. He serves as a consultant to the professional staff of the department and to local health offices, assisting them in establishing local mental health services and in developing training programs for their staffs. He also consults with community agencies and citizen groups which are interested in obtaining mental health services and educational programs for their community. With funds available under the National Mental Health Act, it is planned that this psychiatrist will conduct lectures, seminars, and a course of study in mental health for the administrative staff of the State health department. He will also conduct short-term teaching programs for any local health department which requests them. A public health nurse with advanced training in pediatrics and mental hygiene will work closely with him, providing educational and consultative services to the nursing staff of local health departments.

Approximately one-sixth of California's allotment will be spent directly by the State health department for administrative expenses, salaries, and the training and consultative services described. The remainder of the funds will be used for local mental health activities.

Two county health departments will each receive funds to employ a psychiatric social worker. One social worker will participate in maternal and child health conferences and in monthly mental hygiene clinics held in the major communities of the county; the other in a venereal disease clinic, where a study of the causative factors of promiscuity and of psychiatric and social methods of treatment is being undertaken. In connection with the latter study, a clinical psychologist will also be trained.

A private hospital, Mt. Zion Hospital of San Francisco, will receive funds to be used as supplementary stipends for the training of two psychiatrists in its out-patient clinic. The child guidance clinics in Orange County and in the San Francisco Children's Hospital will each receive funds to employ a psychiatric social worker. And



the Los Angeles Psychiatric Service, a non-profit clinic for adults sponsored by the Community Chest, will receive funds to employ a half-time psychiatrist and to train two psychiatric social workers and two clinical psychologists.

The Department of Mental Hygiene will also receive funds from the State mental health authority to extend its out-patient services. Funds will be used, in addition to travel and operating expenses, to employ four psychiatrists, two clinical psychologists, three psychiatric social workers, and four clerks. These persons will be employed in the central office at Sacramento, the out-patient clinics of two State hospitals, the State home for mental defectives, and a new out-patient clinic in Berkeley. In addition, supplementary stipends will be given for the training of seven psychiatric residents at the Langley Porter Clinic in San Francisco.

California, then, is a State which has a number of mental health clinics not under the direct supervision of the State mental health authority, and which plans to use most of its funds for the support of these clinics. It also offers a good example of the type of cooperation that can exist among agencies in promoting better mental health for its citizens.

Montana has approached its mental health program in a third way. Until now, Montana has had no mental health services whatsoever outside of the State hospital. It plans to use Federal funds to inaugurate a traveling clinic, with headquarters at the Montana State Hospital, which will make bimonthly visits to 5 cities, in each of which a psychiatric social worker will be permanently situated. The traveling clinic staff will consist of three part-time psychiatrists, a psychiatric social work consultant, and a clerk. An out-patient department at the State hospital will also be established.

The Montana plan includes provision also for the training of a physician in psychiatry, a clinical psychologist, and a psychiatric social worker; for professional consultation services; for the establishment of a register of psychiatric patients; and for mental health education of lay and professional groups.

This plan represents a promising beginning for a State which has had no out-patient psychiatric clinics. The use of traveling clinics is one of the best means of bringing mental health services to as many people as possible, particularly in States with a widely dispersed population.

Each of the three programs is designed to meet the needs peculiar to the particular State. A State can benefit, of course, from the experience of others, but in the last analysis, it must survey its own needs and work out an aggressive program to meet these needs, both in terms of what can be done immediately with the resources at hand and what can and should be done on a long-term basis.

## TRAINING AND RESEARCH

A report on the national mental health program would not be complete without informing you on the progress of its other facets—the research and training programs. At the time that \$3,000,000 was appropriated for grants-in-aid to States, \$1,500,000 was appropriated for training and research in the field of mental health. Approximately \$1,100,000 of this sum was set aside for training grants and stipends and the remainder for research grants and fellowships.

*Training.*<sup>5</sup>—For the 1948 fiscal year, 59 grants were awarded to universities, hospitals, clinics and other teaching centers to improve and expand their training facilities, upon recommendation of the National Advisory Mental Health Council. Twenty-two of the grants were for training in psychiatry, 18 in clinical psychology, 10 in psychiatric social work, and 9 in psychiatric nursing.

In addition, 227 stipends were awarded, through institutions collaborating in the training program, to graduate students in the four mental health specialty fields: 82 in psychiatry, 41 in clinical psychology, 46 in psychiatric social work, and 58 in psychiatric nursing.

By expanding and improving existing training centers, stimulating potential ones, and encouraging qualified students to enter the field, it is hoped that the acute shortage of personnel will eventually be met.

*Research.*<sup>5</sup>—To date, 130 requests for research grants have been submitted. Thirty-nine were approved by the Council, of which it was possible to award 32. The approved projects range from investigations in biochemistry, neurophysiology, and neuropathology, through studies on epilepsy, schizophrenia, child psychiatry, and psychosomatic medicine, to methods of psychotherapy and mental hygiene techniques. Twenty-four fellowships have also been awarded to advanced students who have completed their professional training to conduct research in the field of mental health.

Since the last meeting of this group, Congress appropriated \$850,000 for the purchase of a site and the drawing of plans and specifications for the National Institute of Mental Health, which will be consolidated with the new Institute of Health. Plans for its construction are well under way.

Intensive research into the causes, treatment, and prevention of mental illness, now made possible by the National Mental Health Act, offers new hope that answers to the problem of mental illness may yet be found.

## CONCLUSION

As one takes stock of the accomplishments achieved by the States in the 5 months since funds became available to launch the national

<sup>5</sup> Corrected to January 1, 1948.

mental health program, one is deeply impressed by the ingenuity and resourcefulness of the States in developing mental health services, many in places heretofore barren of them, to meet the mental health needs of the people.

But there is yet much to be done. Many of the activities made possible under the National Mental Health Act will not be realized for some time to come, but it is necessary to plan for the future as well as to deal with the realities of today. It is not possible to furnish mental health services in many instances because of personnel limitations. That is why a training program is necessary. It is not possible to prevent or adequately treat all types of mental illness with the knowledge we now possess. That is why a research program is necessary. It is not possible to use the knowledge we now possess unless funds are available to apply to it. That is why a State grant-in-aid program is necessary.

The desired goals cannot be reached at once. But real success can be obtained, as it has been in other public health programs. It will depend on the type of teamwork which has proved so effective in other fields of public health—on the cooperation and participation of States and communities, and of organizations and individuals interested in the mental health of the people.

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## STUDIES OF THE ACUTE DIARRHEAL DISEASES

### XXI. Salmonellosis in Florida <sup>1</sup>

By MILDRED M. GALTON, *Bacteriologist*, and ALBERT V. HARDY,<sup>2</sup> *Director, Bureau of Laboratories, Florida State Board of Health*

Five years of observation on the occurrence of salmonellosis in Florida have been completed. In all there have been 746 isolations of 48 types, exclusive of *S. typhi*. The findings are summarized to aid in providing more adequate knowledge of the prevalence and distribution of these infections.

#### MATERIALS AND METHODS

Most of our information is the result of detailed bacteriological studies of specimens submitted routinely to a public health diagnostic laboratory. During the years 1942 through 1946 a total of 81,174 fecal specimens were examined by culture. At least 85 percent of these were submitted by food-handlers. The remainder were from individuals suspected of having enteric infections and from contacts examined in the course of infrequent epidemiological studies.

<sup>1</sup> From the Bureau of Laboratories, Florida State Board of Health.

<sup>2</sup> Formerly, Surgeon (R) Public Health Service.

The bacteriological methods have been modified as we sought to select highly effective procedures practicable for use in a diagnostic laboratory handling a large volume of work. The results obtained through the use of Kauffmann's combined enrichment method have been reported for the first 9 months during which it was used (1). In the Central Laboratory, during 1944, 1945, and 8 months of 1946, the relative efficacy of four procedures was compared. The results, given in table 1, emphasize the superiority of the enrichment methods. Of 451 *Salmonella* isolations, 252 (56 percent) were found only on cultures transferred from the tetrathionate brilliant-green broth

TABLE 1.—*The relative efficacy of varying cultural procedures for the isolation of Salmonella (exclusive of S. typhi) from fecal specimens submitted in glycerine-saline preservative, Florida, 1944, 1945 and 8 months of 1946*

| Laboratory procedure                                 | Total isolations | Isolations by one procedure only | Isolations by direct streak or enrichment only |
|--|------------------|----------------------------------|--|
| Direct streak to S. S. agar.....                     | 85               | 2                                | 12   |
| Direct streak to Wilson-Blair agar.....              | 170              | 10                               |  |
| Enrichment <sup>1</sup> to S. S. agar.....           | 281              | 21                               | 252  |
| Enrichment <sup>1</sup> to brilliant-green agar..... | 392              | 73                               |  |
| Total.....   | 451              | 106                              |  |

<sup>1</sup> Tetrathionate brilliant-green bile broth.

enrichment. Furthermore, of the total isolations, the transfers from enrichment to the brilliant-green agar resulted in 392 positives, while transfers from the same broth to S. S. agar gave only 281 positives. The enrichment procedure yielded all but 12 of the total positives found. Direct streaking from the specimens in glycerine saline to S. S. agar was relatively ineffective for the isolation of *Salmonella*. Only 85 (19 percent) of the 451 positive specimens were found positive by this procedure, and in only two specimens was the isolation obtained from S. S. agar alone. The direct inoculation of the Wilson-Blair medium was more effective, but only 10 positives were found by this procedure which were not found by enrichment.

The serological studies have been made with serums and cultures provided by Dr. P. R. Edwards and, later, with the "*Salmonella* typing kit" distributed by the Army Medical School. During the early months of this study, all cultures presumably *Salmonella* (exclusive of *S. typhi*) were sent to Dr. Edwards for final identification. Throughout the entire study he has guided and assisted generously. The accepted technics for identification of *Salmonella* by antigenic analysis have been used throughout.

#### SALMONELLA TYPES ISOLATED

Of the 81,174 fecal specimens submitted for culture during the 5-year period, 510 were positive for *S. typhi* and 746 were positive for other types of *Salmonella*. These latter included 48 types distributed

in all groups except A as shown in table 2. The types found to occur most frequently in Florida were: *S. anatum* (14.4 percent of all), *S. derby* (9.6 percent), *S. oranienburg* (8.8 percent), *S. newport* (8.9 percent), and *S. typhi murium* (8.0 percent). Almost all (98.5 percent) of the *Salmonella* isolated exclusive of *S. typhi* were those considered to have animals as their natural host.

Seven types not previously isolated were found. These have been described by Edwards and his associates and given the names *S. florida* (2), *S. inverness* (3), *S. pensacola* (4), *S. miami* (5), *S. tallahassee*, *S. daytona* (6), and *S. luciana* (7). Three of these, *S. inverness*,

TABLE 2.—*Salmonella* types isolated from fecal specimens in Florida, January 1942 through December 1946

| Group                    | Type                                    | 1942   | 1943    | 1944    | 1945    | 1946    | Total   |
|--------------------------|---|--------|---------|---------|---------|---------|---------|
| B                        | <i>S. bredeney</i>                      |        | 4       | 4       | 8       | 8       | 24      |
|                          | <i>S. derby</i>                         | 3      | 5       | 17      | 26      | 18      | 69      |
|                          | <i>S. saint paul</i>                    |        |         |         | 3       | 2       | 5       |
|                          | <i>S. san diego</i>                     | 1      | 2       | 2       | 6       | 1       | 12      |
|                          | <i>S. paratyphi B</i>                   |        | 1       | 2       | 4       | 3       | 10      |
|                          | <i>S. paratyphi B var. Java</i>         |        | 3       | 4       | 6       | 4       | 17      |
|                          | <i>S. typhi-murium</i>                  | 1      | 9       | 14      | 19      | 19      | 62      |
|                          | <i>S. typhi-murium var. Copenhagen</i>  |        | 2       |         |         |         | 2       |
| C                        | <i>S. boris-morbificans</i>             |        |         |         |         | 1       | 1       |
|                          | <i>S. bareilly</i>                      |        | 3       | 6       | 2       | 4       | 15      |
|                          | <i>S. bonoriensis</i>                   | 2      |         |         |         | 1       | 3       |
|                          | <i>S. cholerae suis var. Kunzendorf</i> |        |         | 1       | 1       |         | 2       |
|                          | <i>S. hartford</i>                      | 2      | 2       |         | 3       | 4       | 11      |
|                          | <i>S. litchfield</i>                    | 1      | 2       | 7       | 2       | 6       | 18      |
|                          | <i>S. manhattan</i>                     |        |         | 2       | 3       | 1       | 6       |
|                          | <i>S. monterideo</i>                    | 1      | 8       | 16      | 11      | 7       | 43      |
|                          | <i>S. newport</i>                       |        | 10      | 25      | 20      | 12      | 67      |
|                          | <i>S. norwich</i>                       |        |         |         | 1       |         | 1       |
|                          | <i>S. oranienburg</i>                   | 1      | 11      | 14      | 13      | 27      | 66      |
|                          | <i>S. oregon</i>                        |        | 4       | 3       | 1       |         | 10      |
|                          | <i>S. tennessee</i>                     |        |         | 1       | 8       | 5       | 14      |
|                          | <i>S. tallahassee</i>                   |        |         |         | 5       | 1       | 6       |
|                          | <i>S. daytona</i>                       |        |         |         | 1       |         | 1       |
|                          | <i>S. gatuni</i>                        |        |         |         |         | 1       | 1       |
| D                        | <i>S. berta</i>                         |        |         | 3       | 3       |         | 6       |
|                          | <i>S. javiana</i>                       |        |         | 1       | 2       |         | 3       |
|                          | <i>S. panama</i>                        |        |         | 2       |         | 1       | 3       |
|                          | <i>S. miami</i>                         | 2      | 4       | 38      | 4       | 5       | 53      |
|                          | <i>S. pensacola</i>                     |        |         | 1       |         |         | 1       |
| E                        | <i>S. butanan</i>                       |        |         |         |         | 1       | 1       |
|                          | <i>S. anatum</i>                        | 3      | 9       | 21      | 39      | 36      | 108     |
|                          | <i>S. give</i>                          |        | 5       | 3       | 5       | 3       | 16      |
|                          | <i>S. meleagridis</i>                   |        | 14      | 3       |         | 3       | 20      |
|                          | <i>S. newington</i>                     |        | 4       | 4       | 3       | 3       | 14      |
|                          | <i>S. senftenberg</i>                   |        | 1       | 1       | 3       |         | 5       |
|                          | <i>S. new-brunswick</i>                 |        |         |         |         | 2       | 2       |
| Further groups.          | <i>S. carrau</i>                        |        | 1       | 1       |         |         | 2       |
|                          | <i>S. cerro</i>                         |        |         | 1       | 2       |         | 3       |
|                          | <i>S. coli</i>                          |        | 1       |         |         |         | 1       |
|                          | <i>S. florida</i>                       | 1      | 2       | 1       |         |         | 4       |
|                          | <i>S. gaminara</i>                      |        | 1       |         |         |         | 1       |
|                          | <i>S. hormaechei</i>                    |        |         |         | 1       | 1       | 2       |
|                          | <i>S. inverness</i>                     |        | 1       |         |         |         | 1       |
|                          | <i>S. luciana</i>                       |        |         |         | 1       | 2       | 3       |
|                          | <i>S. madella</i>                       |        | 2       |         | 2       |         | 4       |
|                          | <i>S. minnesota</i>                     | 1      |         |         | 7       | 2       | 10      |
|                          | <i>S. poona</i>                         | 1      |         | 1       | 4       | 3       | 9       |
|                          | <i>S. rubislaw</i>                      |        | 2       | 1       |         | 1       | 4       |
|                          | <i>S. worthington</i>                   |        |         | 1       | 1       |         | 2       |
|                          | <i>S. urbana</i>                        |        |         |         |         | 1       | 1       |
| Total                    |   | 21     | 113     | 200     | 220     | 192     | 746     |
| Fecal specimens examined |   | 3, 192 | 11, 007 | 19, 153 | 22, 498 | 25, 324 | 81, 174 |

*S. pensacola* and *S. daytona*, were encountered once only. *S. pensacola* was isolated by a laboratory worker from himself during an acute attack of gastro-enteritis. The histories of the individuals who yielded *S. inverness* and *S. daytona* are unknown. *S. luciana* was isolated from three individuals, two apparently healthy food-handlers and one of unknown history. *S. florida* was isolated from four persons, one with acute diarrhea and three food-handlers. *S. tallahassee* was isolated from six persons, two with acute diarrhea, two apparently healthy food-handlers, and two of unknown history.

*S. miami* was the one new type which was found frequently. It was isolated 53 times, but 26 of these positives were obtained in one outbreak of gastro-enteritis involving 60 persons in Miami in May, 1944. This organism was isolated also from pickle served in a restaurant in which the affected individuals had eaten. The remaining isolations came from scattered localities. *S. miami* was at first thought to be serologically identical with the Japanese type, *S. sendai*, and was recorded as such in previous reports (1, 8). A comparative study made by Edwards and Moran (5) of the cultural and serological characteristics of the Florida strains, the Japanese strains, and two cultures described by Borman and by Seligmann revealed that the Japanese strains and the American strains are culturally, biochemically, and serologically different, although they have the same antigenic formula.

#### EPIDEMIOLOGICAL COMMENT

There were no epidemiological field studies; the limited data were drawn from the laboratory request slips or collected by questionnaires.

The fecal specimens examined came largely from food-handlers. Most of the isolations were from apparently healthy individuals. Follow-up examinations were submitted on individuals found positive. The data suggest that the carrier state is relatively transient. Repeat positives were uncommon and the longest period over which one individual was found to harbor one type of *Salmonella* (other than *S. typhi*) was 4.5 months.

Multiple types were occasionally found from the same individual, as for example: A food-handler was first found to be harboring *Shigella paradysenteriae* (Flexner). On follow-up 2 weeks later, *Salmonella bredeney* was isolated. At the end of the 4th week *Shigella* (Flexner) was again found. Specimens from this patient were negative for the next 4½ months. At this time, *S. bredeney* was found a second time, followed in 6 weeks by the isolation of *S. anatum*. The history of this patient failed to reveal any indication of intestinal disturbance during the period in which she harbored these organisms or even at any previous time.

The data on clinical cases were too limited for comment, except to note that specimens sent to aid in the diagnosis of diarrheal disease were found positive for *Salmonella* frequently.

Geographically the various *Salmonella* types were scattered widely. The evidence did not suggest that there were foci of infection with the different types.

The explanation and significance of these widely distributed infections clearly warrants detailed investigation.

#### REFERENCES

- (1) Galton, M. M., and Quan, M. S.: *Salmonella* isolated in Florida during 1943 with the combined enrichment method of Kauffmann. *Am. J. Pub. Health* **34**: 1071 (1944).
- (2) Cherry, W. B., Edwards, P. R., and Bruner, D. W.: Two new *Salmonella* types with similiar somatic antigens. *Proc. Soc. Exper. Biol. & Med.*, **52**: 125 (1943).
- (3) Edwards, P. R., and Hughes, H.: A new *Salmonella* type with hitherto undescribed somatic antigens. *Proc. Soc. Exper. Biol. & Med.*, **56**: 33 (1944).
- (4) Moran, A. B., and Edwards, P. R.: A new *Salmonella* type: *S. pensacola*. *Proc. Soc. Exper. Biol. & Med.*, **59**: 52 (1945).
- (5) Edwards, P. R., and Moran, A. B.: *Salmonella* cultures which resemble the *Sendai* type. *J. Bact.*, **50**: 257 (1945).
- (6) Moran, A. B., and Edwards, P. R.: Three new *Salmonella* types: *S. richmond*, *S. daytona*, and *S. tallahassee*. *Proc. Soc. Exper. Biol. & Med.*, **62**: 294 (1946).
- (7) Moran, A. B., Edwards, P. R., and Bruner, D. W.: Two related *Salmonella* types: *S. luciana* and *S. marseille*. *Proc. Soc. Exper. Biol. & Med.*, **64**: 89 (1947).
- (8) Galton, M. M., and Quan, A. L.: Varieties of *Salmonella* isolated in Florida during 1942, *Am. J. Hyg.*, **38**: 173 (1943).

### DEATHS DURING WEEK ENDED MAY 29, 1948

[From the Weekly Mortality Index, issued by the National Office of Vital Statistics]

|  | Week ended<br>May 29, 1948 | Correspond-<br>ing week,<br>1947 |
|--|----------------------------|----------------------------------|
| Data for 92 large cities of the United States:                       |                            |                                  |
| Total deaths   | 8,810                      | 8,034                            |
| Median for 3 prior years   | 8,154                      |                                  |
| Total deaths, first 22 weeks of year                                 | 212,689                    | 212,250                          |
| Deaths under 1 year of age   | 670                        | 674                              |
| Median for 3 prior years   | 609                        |                                  |
| Deaths under 1 year of age, first 22 weeks of year                   | 14,881                     | 17,051                           |
| Data from industrial insurance companies:                            |                            |                                  |
| Policies in force  | 71,072,486                 | 67,303,577                       |
| Number of death claims   | 12,697                     | 9,374                            |
| Death claims per 1,000 policies in force, annual rate                | 9.3                        | 7.3                              |
| Death claims per 1,000 policies, first 22 weeks of year, annual rate | 10.1                       | 9.9                              |

# INCIDENCE OF DISEASE

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*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring*

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## UNITED STATES

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### REPORTS FROM STATES FOR WEEK ENDED JUNE 5, 1948

#### Summary

The incidence of poliomyelitis increased during the week from 138 cases last week to 149 for the current week, as compared with 52 for the 5-year (1943-47) median, 42 for the corresponding week last year (the lowest corresponding figure of the past 5 years), and 144 (the highest) reported in 1946. For the current week, only 5 States reported more than 4 cases, as follows (last week's figures in parentheses): Texas 49 (60), California 28 (14), North Carolina 17 (14), Iowa 15 (4), and Florida 5 (5). During the 3-week period May 16 to June 5, only 6 States have reported more than 9 cases each, as follows (last year's corresponding figures in parentheses): Texas 148 (12), California 66 (43), North Carolina 44 (2), Iowa 24 (2), South Dakota 19 (0), Florida 15 (7). Since March 20, average date of seasonal low incidence, a total of 879 cases has been reported, as compared with 344 (the 5-year median) reported last year, 565 in 1946, the highest corresponding figure of the past 5 years, and 282, the lowest, in 1944.

Of 23 cases of Rocky Mountain spotted fever (last week 13, 5-year median 23), no State reported more than 3 cases. The total for the country to date is 88, as compared with a 5-year median of 82, reported for the same period last year.

One case of anthrax was reported for the week, in New Jersey. No occurrence of smallpox was reported.

Other diseases above the respective median expectancies, current and cumulative, are the dysenteries (amebic, bacillary, and undefined), tularemia, and undulant fever.

Deaths recorded during the week in 92 large cities in the United States totaled 8,510, as compared with 8,914 last week, 9,108 and 9,115, respectively, for the corresponding weeks of 1947 and 1946, and a 3-year (1945-47) median of 9,108. The cumulative figure is 222,985, as compared with 223,151 for the corresponding period last year. Infant deaths totaled 658, as compared with 667 last week and a 3-year median of 648. The total to date is 15,640, as compared with 17,851 for the same period last year.



*Telegraphic morbidity reports from State health officers for the week ended June 5, 1948, and comparison with corresponding week of 1947 and 5-year median*

In these tables a zero indicates a definite report, while leaders imply that, although none was reported, cases may have occurred.

| Division and State                   | Diphtheria         |                    |                            | Influenza          |                    |                            | Measles            |                    |                            | Meningitis,<br>meningococcus |                    |                            |
|--------------------------------------|--------------------|--------------------|----------------------------|--------------------|--------------------|----------------------------|--------------------|--------------------|----------------------------|------------------------------|--------------------|----------------------------|
|                                      | Week ended—        |                    | Med-<br>ian<br>1943-<br>47 | Week ended—        |                    | Med-<br>ian<br>1943-<br>47 | Week ended—        |                    | Med-<br>ian<br>1943-<br>47 | Week ended—                  |                    | Med-<br>ian<br>1943-<br>47 |
|                                      | June<br>5,<br>1948 | May<br>31,<br>1947 |                            | June<br>5,<br>1948 | May<br>31,<br>1947 |                            | June<br>5,<br>1948 | May<br>31,<br>1947 |                            | June<br>5,<br>1948           | May<br>31,<br>1947 |                            |
| NEW ENGLAND                          |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Maine.....                           | 5                  | 2                  | 2                          | 1                  | 3                  | 1                          | 61                 | 101                | 101                        | 1                            | 1                  | 1                          |
| New Hampshire.....                   | 0                  | 0                  | 0                          | 1                  | 2                  | 1                          | 13                 | 1                  | 50                         | 0                            | 0                  | 1                          |
| Vermont.....                         | 0                  | 0                  | 0                          | 1                  | 1                  | 1                          | 21                 | 94                 | 94                         | 5                            | 0                  | 0                          |
| Massachusetts.....                   | 11                 | 12                 | 4                          | 1                  | 1                  | 1                          | 1,429              | 343                | 810                        | 1                            | 0                  | 5                          |
| Rhode Island.....                    | 1                  | 1                  | 0                          | 1                  | 1                  | 1                          | 17                 | 112                | 96                         | 0                            | 0                  | 1                          |
| Connecticut.....                     | 1                  | 0                  | 1                          | 1                  | 1                  | 1                          | 98                 | 823                | 345                        | 1                            | 1                  | 3                          |
| MIDDLE ATLANTIC                      |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| New York.....                        | 9                  | 14                 | 14                         | 1                  | 15                 | 14                         | 2,226              | 599                | 922                        | 6                            | 2                  | 10                         |
| New Jersey.....                      | 2                  | 2                  | 2                          | 1                  | 1                  | 1                          | 2,527              | 675                | 724                        | 5                            | 2                  | 6                          |
| Pennsylvania.....                    | 9                  | 8                  | 9                          | (?)                | (?)                | (?)                        | 2,340              | 180                | 621                        | 2                            | 3                  | 14                         |
| EAST NORTH CENTRAL                   |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Ohio.....                            | 2                  | 8                  | 7                          | 2                  | 7                  | 6                          | 558                | 919                | 644                        | 0                            | 1                  | 7                          |
| Indiana.....                         | 7                  | 4                  | 7                          | 1                  | 1                  | 1                          | 1,051              | 75                 | 162                        | 2                            | 2                  | 2                          |
| Illinois.....                        | 6                  | 5                  | 5                          | 1                  | 1                  | 2                          | 590                | 175                | 396                        | 4                            | 2                  | 16                         |
| Michigan <sup>1</sup> .....          | 0                  | 0                  | 6                          | 1                  | 1                  | 1                          | 1,186              | 157                | 503                        | 1                            | 1                  | 9                          |
| Wisconsin.....                       | 0                  | 0                  | 1                          | 11                 | 4                  | 22                         | 1,566              | 893                | 1,582                      | 1                            | 2                  | 2                          |
| WEST NORTH CENTRAL                   |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Minnesota.....                       | 2                  | 2                  | 2                          | 1                  | 1                  | 1                          | 119                | 601                | 275                        | 0                            | 0                  | 0                          |
| Iowa.....                            | 6                  | 2                  | 3                          | 1                  | 1                  | 1                          | 138                | 81                 | 109                        | 1                            | 0                  | 1                          |
| Missouri.....                        | 1                  | 1                  | 2                          | 3                  | 1                  | 1                          | 104                | 96                 | 124                        | 2                            | 1                  | 7                          |
| North Dakota.....                    | 0                  | 1                  | 0                          | 1                  | 1                  | 1                          | 139                | 44                 | 11                         | 0                            | 0                  | 0                          |
| South Dakota.....                    | 1                  | 0                  | 0                          | 1                  | 1                  | 1                          | 41                 | 132                | 28                         | 1                            | 0                  | 0                          |
| Nebraska.....                        | 0                  | 1                  | 1                          | 3                  | 2                  | 2                          | 149                | 30                 | 134                        | 1                            | 0                  | 1                          |
| Kansas.....                          | 3                  | 5                  | 5                          | 1                  | 1                  | 1                          | 35                 | 9                  | 117                        | 0                            | 1                  | 1                          |
| SOUTH ATLANTIC                       |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Delaware.....                        | 0                  | 0                  | 0                          | 1                  | 1                  | 1                          | 9                  | 4                  | 4                          | 0                            | 0                  | 1                          |
| Maryland <sup>2</sup> .....          | 5                  | 3                  | 6                          | 3                  | 6                  | 6                          | 869                | 47                 | 186                        | 2                            | 1                  | 2                          |
| District of Columbia.....            | 0                  | 0                  | 0                          | 1                  | 1                  | 1                          | 129                | 10                 | 88                         | 2                            | 1                  | 1                          |
| Virginia.....                        | 11                 | 5                  | 5                          | 156                | 138                | 88                         | 462                | 217                | 364                        | 1                            | 2                  | 7                          |
| West Virginia.....                   | 4                  | 5                  | 3                          | 6                  | 27                 | 2                          | 89                 | 13                 | 42                         | 1                            | 0                  | 2                          |
| North Carolina.....                  | 2                  | 4                  | 9                          | 1                  | 1                  | 1                          | 19                 | 110                | 235                        | 0                            | 1                  | 2                          |
| South Carolina.....                  | 1                  | 7                  | 2                          | 170                | 356                | 145                        | 187                | 173                | 173                        | 0                            | 0                  | 0                          |
| Georgia.....                         | 4                  | 1                  | 2                          | 5                  | 1                  | 5                          | 49                 | 35                 | 58                         | 0                            | 4                  | 1                          |
| Florida.....                         | 2                  | 2                  | 2                          | 3                  | 3                  | 3                          | 215                | 48                 | 124                        | 0                            | 0                  | 4                          |
| EAST SOUTH CENTRAL                   |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Kentucky.....                        | 9                  | 3                  | 2                          | 1                  | 1                  | 1                          | 274                | 6                  | 88                         | 2                            | 0                  | 5                          |
| Tennessee.....                       | 2                  | 7                  | 2                          | 12                 | 7                  | 15                         | 131                | 35                 | 102                        | 1                            | 2                  | 4                          |
| Alabama.....                         | 1                  | 9                  | 2                          | 10                 | 46                 | 33                         | 20                 | 213                | 145                        | 1                            | 5                  | 5                          |
| Mississippi <sup>3</sup> .....       | 1                  | 7                  | 5                          | 1                  | 4                  | 4                          | 6                  | 15                 | 15                         | 1                            | 2                  | 1                          |
| WEST SOUTH CENTRAL                   |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Arkansas.....                        | 2                  | 4                  | 2                          | 27                 | 10                 | 9                          | 62                 | 46                 | 46                         | 0                            | 0                  | 1                          |
| Louisiana.....                       | 5                  | 5                  | 3                          | 2                  | 2                  | 2                          | 5                  | 27                 | 31                         | 1                            | 0                  | 3                          |
| Oklahoma.....                        | 3                  | 2                  | 2                          | 27                 | 34                 | 28                         | 70                 | 2                  | 29                         | 1                            | 1                  | 2                          |
| Texas.....                           | 17                 | 14                 | 25                         | 329                | 329                | 329                        | 1,488              | 314                | 345                        | 5                            | 5                  | 12                         |
| MOUNTAIN                             |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Montana.....                         | 1                  | 0                  | 0                          | 2                  | 4                  | 4                          | 38                 | 50                 | 70                         | 0                            | 0                  | 0                          |
| Idaho.....                           | 0                  | 0                  | 0                          | 2                  | 6                  | 6                          | 47                 | 32                 | 29                         | 0                            | 0                  | 0                          |
| Wyoming.....                         | 0                  | 0                  | 0                          | 2                  | 2                  | 2                          | 45                 | 5                  | 36                         | 0                            | 0                  | 0                          |
| Colorado.....                        | 4                  | 4                  | 6                          | 4                  | 13                 | 14                         | 501                | 49                 | 148                        | 0                            | 2                  | 1                          |
| New Mexico.....                      | 0                  | 0                  | 1                          | 5                  | 5                  | 3                          | 46                 | 65                 | 44                         | 0                            | 1                  | 0                          |
| Arizona.....                         | 2                  | 1                  | 1                          | 31                 | 49                 | 44                         | 257                | 74                 | 48                         | 0                            | 0                  | 0                          |
| Utah <sup>4</sup> .....              | 5                  | 0                  | 0                          | 1                  | 1                  | 1                          | 549                | 4                  | 94                         | 0                            | 0                  | 0                          |
| Nevada.....                          | 0                  | 0                  | 0                          | 1                  | 1                  | 1                          | 1                  | 1                  | 13                         | 0                            | 0                  | 0                          |
| PACIFIC                              |                    |                    |                            |                    |                    |                            |                    |                    |                            |                              |                    |                            |
| Washington.....                      | 1                  | 3                  | 4                          | 1                  | 1                  | 1                          | 606                | 14                 | 137                        | 2                            | 1                  | 2                          |
| Oregon.....                          | 0                  | 0                  | 0                          | 5                  | 8                  | 7                          | 415                | 8                  | 104                        | 0                            | 1                  | 1                          |
| California.....                      | 10                 | 11                 | 17                         | 11                 | 20                 | 20                         | 2,887              | 207                | 1,308                      | 4                            | 7                  | 11                         |
| Total.....                           | 158                | 165                | 174                        | 824                | 1,097              | 1,026                      | 23,883             | 7,959              | 16,130                     | 58                           | 55                 | 173                        |
| 22 weeks.....                        | 4,074              | 5,557              | 5,557                      | 133,962            | 296,940            | 185,879                    | 443,446            | 142,413            | 444,654                    | 1,707                        | 1,882              | 4,877                      |
| Seasonal low week <sup>4</sup> ..... | (27th)             | July 5-11          | (30th)                     | July 26-Aug. 1     | (35th)             | Aug. 30-Sept. 5            | (37th)             | Sept. 13-19        |                            |                              |                    |                            |
| Total since low.....                 | 10,432             | 13,123             | 14,347                     | 177,520            | 329,915            | 329,915                    | 478,392            | 165,300            | 482,667                    | 2,489                        | 2,854              | 7,329                      |

<sup>1</sup> New York City only. <sup>2</sup> Philadelphia only.

<sup>3</sup> Period ended earlier than Saturday.

<sup>4</sup> Dates between which the approximate low week ends. The specific date will vary from year to year.

Telegraphic morbidity reports from State health officers for the week ended June 5, 1948, and comparison with corresponding week of 1947 and 5-year median—Con.

| Division and State                   | Poliomyelitis     |              |                | Scarlet fever    |              |                | Smallpox                  |              |                | Typhoid and paratyphoid fever <sup>4</sup> |              |                |
|--------------------------------------|-------------------|--------------|----------------|------------------|--------------|----------------|---------------------------|--------------|----------------|--|--------------|----------------|
|                                      | Week ended—       |              | Median 1943-47 | Week ended—      |              | Median 1943-47 | Week ended—               |              | Median 1943-47 | Week ended—                                |              | Median 1943-47 |
|                                      | June 5, 1948      | May 31, 1947 |                | June 5, 1948     | May 31, 1947 |                | June 5, 1948 <sup>5</sup> | May 31, 1947 |                | June 5, 1948                               | May 31, 1947 |                |
| NEW ENGLAND                          |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Maine.....                           | 0                 | 0            | 0              | 10               | 13           | 27             | 0                         | 0            | 0              | 0  | 0            | 0              |
| New Hampshire.....                   | 0                 | 0            | 0              | 0                | 1            | 6              | 0                         | 0            | 0              | 0  | 0            | 0              |
| Vermont.....                         | 0                 | 0            | 0              | 2                | 10           | 10             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Massachusetts.....                   | 0                 | 0            | 0              | 229              | 94           | 221            | 0                         | 0            | 0              | <sup>6</sup> 4                             | 1            | 1              |
| Rhode Island.....                    | 0                 | 0            | 0              | 5                | 12           | 12             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Connecticut.....                     | 0                 | 0            | 0              | 19               | 22           | 56             | 0                         | 0            | 0              | 1  | 0            | 0              |
| MIDDLE ATLANTIC                      |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| New York.....                        | 2                 | 1            | 3              | <sup>8</sup> 180 | 176          | 389            | 0                         | 0            | 0              | <sup>6</sup> 2                             | 3            | 3              |
| New Jersey.....                      | 4                 | 1            | 1              | 42               | 76           | 98             | 0                         | 0            | 0              | 0  | 1            | 1              |
| Pennsylvania.....                    | 0                 | 0            | 1              | 222              | 209          | 230            | 0                         | 0            | 0              | 3  | 11           | 3              |
| EAST NORTH CENTRAL                   |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Ohio.....                            | 3                 | 2            | 1              | 212              | 196          | 296            | 0                         | 0            | 0              | 1  | 2            | 2              |
| Indiana.....                         | 2                 | 0            | 0              | 36               | 41           | 55             | 0                         | 0            | 0              | 1  | 0            | 2              |
| Illinois.....                        | 0                 | 2            | 2              | 98               | 53           | 155            | 0                         | 0            | 1              | 1  | 5            | 2              |
| Michigan <sup>3</sup> .....          | 1                 | 1            | 1              | 74               | 116          | 139            | 0                         | 0            | 0              | 0  | 2            | 2              |
| Wisconsin.....                       | 0                 | 0            | 0              | 42               | 54           | 253            | 0                         | 0            | 0              | 0  | 0            | 0              |
| WEST NORTH CENTRAL                   |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Minnesota.....                       | 0                 | 1            | 1              | 17               | 46           | 53             | 0                         | 0            | 0              | 0  | 1            | 1              |
| Iowa.....                            | 15                | 1            | 0              | 17               | 4            | 34             | 0                         | 0            | 0              | 1  | 1            | 1              |
| Missouri.....                        | 3                 | 0            | 0              | <sup>8</sup> 27  | 47           | 47             | 0                         | 0            | 1              | 1  | 1            | 4              |
| North Dakota.....                    | 0                 | 0            | 0              | 4                | 0            | 5              | 0                         | 0            | 0              | 3  | 0            | 0              |
| South Dakota.....                    | 0                 | 0            | 0              | 2                | 2            | 12             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Nebraska.....                        | 4                 | 0            | 0              | 18               | 11           | 22             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Kansas.....                          | 1                 | 0            | 0              | 12               | 35           | 35             | 0                         | 0            | 1              | 1  | 0            | 0              |
| SOUTH ATLANTIC                       |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Delaware.....                        | 0                 | 0            | 0              | 3                | 3            | 2              | 0                         | 0            | 0              | 0  | 0            | 0              |
| Maryland <sup>3</sup> .....          | 0                 | 0            | 0              | <sup>6</sup> 16  | 25           | 73             | 0                         | 0            | 0              | 1  | 1            | 1              |
| District of Columbia.....            | 0                 | 0            | 0              | 7                | 4            | <sup>8</sup> 8 | 0                         | 0            | 0              | 1  | 0            | 0              |
| Virginia.....                        | 0                 | 0            | 0              | 19               | 12           | 36             | 0                         | 0            | 0              | 2  | 1            | 1              |
| West Virginia.....                   | 0                 | 0            | 0              | <sup>9</sup> 9   | 9            | 17             | 0                         | 0            | 0              | 0  | 0            | 0              |
| North Carolina.....                  | 17                | 1            | 2              | 10               | 11           | 24             | 0                         | 0            | 0              | 3  | 2            | 2              |
| South Carolina.....                  | 0                 | 0            | 1              | 3                | 2            | 6              | 0                         | 0            | 0              | <sup>2</sup> 2                             | 2            | 2              |
| Georgia.....                         | 1                 | 1            | 1              | 14               | 6            | 10             | 0                         | 0            | 0              | <sup>2</sup> 2                             | 2            | 5              |
| Florida.....                         | 5                 | 2            | 3              | 4                | 3            | 3              | 0                         | 0            | 0              | <sup>2</sup> 2                             | 0            | 2              |
| EAST SOUTH CENTRAL                   |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Kentucky.....                        | 0                 | 4            | 1              | 17               | 14           | 24             | 0                         | 0            | 0              | 0  | 4            | 1              |
| Tennessee.....                       | 0                 | 0            | 0              | 11               | 16           | 13             | 0                         | 0            | 0              | 0  | 1            | 2              |
| Alabama.....                         | 1                 | 0            | 2              | 5                | 8            | 8              | 0                         | 3            | 0              | 0  | 0            | 1              |
| Mississippi <sup>3</sup> .....       | 0                 | 0            | 1              | 0                | 4            | 3              | 0                         | 0            | 0              | 2  | 1            | 2              |
| WEST SOUTH CENTRAL                   |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Arkansas.....                        | 2                 | 0            | 0              | 5                | 2            | 5              | 0                         | 0            | 0              | 4  | 4            | 4              |
| Louisiana.....                       | 4                 | 0            | 0              | 2                | 6            | 7              | 0                         | 0            | 0              | 5  | 3            | 5              |
| Oklahoma.....                        | 2                 | 1            | 1              | 6                | 1            | 10             | 0                         | 0            | 0              | 2  | 1            | 0              |
| Texas.....                           | 49                | 5            | 6              | 19               | 11           | 45             | 0                         | 0            | 0              | <sup>9</sup> 9                             | 4            | 8              |
| MOUNTAIN                             |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Montana.....                         | 0                 | 0            | 0              | 4                | 9            | 9              | 0                         | 0            | 0              | 0  | 0            | 0              |
| Idaho.....                           | 2                 | 0            | 0              | 0                | 7            | 16             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Wyoming.....                         | 0                 | 0            | 0              | 2                | 2            | 6              | 0                         | 0            | 0              | 0  | 0            | 0              |
| Colorado.....                        | 2                 | 0            | 0              | 12               | 19           | 36             | 0                         | 0            | 0              | 1  | 0            | 1              |
| New Mexico.....                      | 0                 | 0            | 0              | 3                | 8            | 4              | 0                         | 0            | 0              | 0  | 3            | 0              |
| Arizona.....                         | 0                 | 1            | 0              | 0                | 4            | 9              | 0                         | 0            | 0              | 1  | 0            | 0              |
| Utah <sup>3</sup> .....              | 0                 | 0            | 1              | 8                | 5            | 13             | 0                         | 0            | 0              | 0  | 0            | 0              |
| Nevada.....                          | 0                 | 0            | 0              | 0                | 0            | 0              | 0                         | 0            | 0              | 0  | 0            | 0              |
| PACIFIC                              |                   |              |                |                  |              |                |                           |              |                |  |              |                |
| Washington.....                      | 1                 | 0            | 0              | 17               | 23           | 23             | 0                         | 0            | 1              | 0  | 0            | 1              |
| Oregon.....                          | 0                 | 0            | 0              | 15               | 9            | 22             | 0                         | 0            | 0              | 1  | 0            | 0              |
| California.....                      | 28                | 18           | 11             | 67               | 92           | 147            | 0                         | 0            | 0              | <sup>2</sup> 2                             | 4            | 4              |
| Total.....                           | 149               | 42           | 52             | 1,527            | 1,513        | 2,844          | 0                         | 3            | 7              | 59   | 61           | 80             |
| 22 weeks.....                        | 1,227             | 956          | 811            | 48,238           | 54,185       | 85,342         | 45                        | 134          | 234            | 1,139                                      | 1,085        | 1,316          |
| Seasonal low week <sup>4</sup> ..... | (11th) Mar. 15-21 |              |                | (32nd) Aug. 9-15 |              |                | (35th) Aug. 30-Sept. 5    |              |                | (11th) Mar. 15-21                          |              |                |
| Total since low.....                 | 879               | 344          | 344            | 70,777           | 80,871       | 123,663        | 66                        | 188          | 310            | 666  | 600          | 705            |

<sup>3</sup> Period ended earlier than Saturday.

<sup>4</sup> Dates between which the approximate low week ends. The specific date will vary from year to year.

<sup>5</sup> Including cases reported as streptococcal infections and septic sore throat.

<sup>6</sup> Including paratyphoid fever and salmonella infections reported separately, as follows: Massachusetts (salmonella infection) 4, New York (salmonella infection) 2, South Carolina 1, Georgia 1, Florida 1, Texas 1, California 1.

*Telegraphic morbidity reports from State health officers for the week ended June 5, 1948, and comparison with corresponding week of 1947 and 5-year median—Con.*

| Division and State             | Whooping cough     |                    |                   | Week ended June 5, 1948 |           |             |                             |                                  |           |                             |                   |
|--------------------------------|--------------------|--------------------|-------------------|-------------------------|-----------|-------------|-----------------------------|----------------------------------|-----------|-----------------------------|-------------------|
|                                | Week ended—        |                    | Median<br>1943-47 | Dysentery               |           |             | Encephalitis,<br>infectious | Rocky<br>Mt.<br>spotted<br>fever | Tularemia | Typhus<br>fever,<br>endemic | Undulant<br>fever |
|                                | June<br>5,<br>1948 | May<br>31,<br>1947 |                   | Amebic                  | Bacillary | Unspecified |                             |                                  |           |                             |                   |
| NEW ENGLAND                    |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Maine.....                     | 8                  | 19                 | 19                | -----                   | 9         | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| New Hampshire.....             | 3                  | 4                  | 4                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Vermont.....                   | 23                 | 1                  | 13                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | 1                 |
| Massachusetts.....             | 23                 | 100                | 100               | -----                   | 8         | -----       | 1                           | -----                            | -----     | -----                       | 1                 |
| Rhode Island.....              | 8                  | 19                 | 19                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Connecticut.....               | 6                  | 44                 | 35                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | 1                 |
| MIDDLE ATLANTIC                |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| New York.....                  | 75                 | 131                | 131               | 12                      | 1         | -----       | -----                       | -----                            | -----     | -----                       | 6                 |
| New Jersey.....                | 43                 | 149                | 88                | 3                       | -----     | -----       | -----                       | 1                                | -----     | -----                       | 1                 |
| Pennsylvania.....              | 45                 | 146                | 146               | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | 3                 |
| EAST NORTH CENTRAL             |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Ohio.....                      | 28                 | 192                | 110               | -----                   | -----     | -----       | -----                       | 1                                | -----     | -----                       | 15                |
| Indiana.....                   | 11                 | 24                 | 30                | -----                   | -----     | -----       | 3                           | -----                            | -----     | -----                       | 3                 |
| Illinois.....                  | 22                 | 70                 | 76                | 5                       | 3         | -----       | 2                           | 1                                | 1         | -----                       | 8                 |
| Michigan <sup>1</sup> .....    | 42                 | 217                | 125               | 2                       | -----     | -----       | 1                           | -----                            | -----     | -----                       | 4                 |
| Wisconsin.....                 | 36                 | 149                | 127               | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | 4                 |
| WEST NORTH CENTRAL             |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Minnesota.....                 | 8                  | 36                 | 22                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Iowa.....                      | 9                  | 17                 | 17                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Missouri.....                  | 6                  | 39                 | 26                | -----                   | -----     | -----       | -----                       | -----                            | 4         | -----                       | 1                 |
| North Dakota.....              | 2                  | 101                | 2                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| South Dakota.....              | 2                  | 1                  | 3                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Nebraska.....                  | 12                 | 6                  | 7                 | 7                       | -----     | -----       | -----                       | -----                            | -----     | -----                       | 2                 |
| Kansas.....                    | 38                 | 31                 | 32                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | 3                 |
| SOUTH ATLANTIC                 |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Delaware.....                  | 3                  | 5                  | -----             | -----                   | -----     | -----       | -----                       | 2                                | -----     | -----                       | -----             |
| Maryland <sup>1</sup> .....    | 5                  | 92                 | 83                | -----                   | -----     | 3           | -----                       | 2                                | -----     | -----                       | -----             |
| District of Columbia.....      | -----              | 22                 | 11                | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Virginia.....                  | 58                 | 85                 | 85                | -----                   | -----     | 58          | -----                       | 3                                | 2         | -----                       | 1                 |
| West Virginia.....             | 10                 | 17                 | 29                | -----                   | -----     | -----       | -----                       | 2                                | -----     | -----                       | -----             |
| North Carolina.....            | 65                 | 77                 | 116               | -----                   | -----     | -----       | (?)                         | 1                                | 1         | -----                       | -----             |
| South Carolina.....            | 89                 | 204                | 71                | -----                   | 6         | -----       | -----                       | -----                            | -----     | 1                           | 1                 |
| Georgia.....                   | 4                  | 29                 | 29                | -----                   | 1         | -----       | -----                       | -----                            | 1         | 7                           | 9                 |
| Florida.....                   | 21                 | 74                 | 26                | 10                      | -----     | 1           | -----                       | -----                            | 1         | 5                           | 6                 |
| EAST SOUTH CENTRAL             |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Kentucky.....                  | 25                 | 35                 | 34                | -----                   | -----     | -----       | -----                       | 1                                | -----     | -----                       | 1                 |
| Tennessee.....                 | 19                 | 42                 | 42                | 9                       | -----     | -----       | 1                           | 2                                | -----     | -----                       | 2                 |
| Alabama.....                   | 36                 | 148                | 37                | -----                   | -----     | -----       | -----                       | -----                            | -----     | 1                           | 1                 |
| Mississippi <sup>1</sup> ..... | 5                  | 16                 | -----             | -----                   | -----     | -----       | -----                       | -----                            | -----     | 1                           | 1                 |
| WEST SOUTH CENTRAL             |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Arkansas.....                  | 30                 | 63                 | 13                | 7                       | -----     | 14          | -----                       | -----                            | 6         | -----                       | -----             |
| Louisiana.....                 | 7                  | 10                 | 2                 | 2                       | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Oklahoma.....                  | 30                 | 41                 | 15                | 2                       | -----     | -----       | -----                       | -----                            | 2         | -----                       | 1                 |
| Texas.....                     | 353                | 782                | 330               | 33                      | 452       | 120         | -----                       | -----                            | 6         | 10                          | 12                |
| MOUNTAIN                       |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Montana.....                   | 3                  | 7                  | 5                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Idaho.....                     | 7                  | 3                  | 8                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Wyoming.....                   | 12                 | 1                  | 3                 | -----                   | -----     | -----       | -----                       | 2                                | -----     | -----                       | -----             |
| Colorado.....                  | 30                 | 4                  | 24                | -----                   | 4         | -----       | -----                       | 1                                | -----     | -----                       | 7                 |
| New Mexico.....                | 9                  | 24                 | 8                 | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| Arizona.....                   | 18                 | 53                 | 23                | -----                   | -----     | 46          | -----                       | -----                            | -----     | -----                       | -----             |
| Utah <sup>1</sup> .....        | 4                  | 6                  | 21                | -----                   | -----     | -----       | -----                       | 1                                | -----     | -----                       | 3                 |
| Nevada.....                    | -----              | -----              | -----             | -----                   | -----     | -----       | -----                       | -----                            | -----     | -----                       | -----             |
| PACIFIC                        |                    |                    |                   |                         |           |             |                             |                                  |           |                             |                   |
| Washington.....                | 9                  | 14                 | 16                | 3                       | -----     | -----       | -----                       | -----                            | -----     | -----                       | 2                 |
| Oregon.....                    | 18                 | 11                 | 17                | 1                       | -----     | -----       | -----                       | 3                                | -----     | -----                       | -----             |
| California.....                | 73                 | 240                | 240               | 6                       | 6         | 1           | 1                           | -----                            | -----     | 1                           | 5                 |
| Total.....                     | 1,393              | 3,601              | 2,366             | 102                     | 490       | 243         | 9                           | 23                               | 25        | 26                          | 105               |
| Same week: 1947.....           | 3,601              | -----              | -----             | 50                      | 316       | 147         | 4                           | 19                               | 37        | 30                          | 90                |
| Median, 1943-47.....           | 2,366              | -----              | -----             | 50                      | 493       | 114         | 14                          | 23                               | 20        | 52                          | 89                |
| 22 weeks: 1948.....            | 44,864             | -----              | -----             | 1,667                   | 7,065     | 4,199       | 7194                        | 88                               | 413       | 325                         | 2,025             |
| 1947.....                      | 63,311             | -----              | -----             | 1,066                   | 6,528     | 4,242       | 144                         | 82                               | 681       | 804                         | 2,293             |
| Median, 1943-47.....           | 54,758             | -----              | -----             | 681                     | 6,528     | 2,503       | 193                         | 82                               | 387       | 1,015 <sup>1</sup>          | 1,967             |

<sup>1</sup> Period ended earlier than Saturday.

<sup>1</sup> Correction (deducted from cumulative total): Encephalitis, North Carolina, week ended May 15, 0, (instead of 1 case).

<sup>2</sup> 3-year median 1945-47.

Anthrax: New Jersey, 1 case.

Alaska: Chickenpox 4, mumps 1, whooping cough 4, pneumonia 1.

Territory of Hawaii: Rabies 0, bacillary dysentery 1, measles 1, scarlet fever 4, whooping cough 12.

## WEEKLY REPORTS FROM CITIES\*

City reports for week ended May 29, 1948

This table lists the reports from 87 cities of more than 10,000 population distributed throughout the United States, and represents a cross section of the current urban incidence of the diseases included in the table.

| Division, State, and City | Diphtheria cases | Enecephalitis, infectious, cases | Influenza |        | Measles cases | Meningitis, meningococcus, cases | Pneumonia deaths | Pollomyelitis cases | Scarlet fever cases | Smallpox cases | Typhoid and paratyphoid fever cases | Whooping cough cases |
|---------------------------|------------------|----------------------------------|-----------|--------|---------------|----------------------------------|------------------|---------------------|---------------------|----------------|-------------------------------------|----------------------|
|                           |                  |                                  | Cases     | Deaths |               |                                  |                  |                     |                     |                |                                     |                      |
| NEW ENGLAND               |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Maine:                    |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Portland                  | 0                | 0                                |           | 0      | 3             | 0                                | 1                | 0                   | 1                   | 0              | 0                                   |                      |
| New Hampshire:            |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Concord                   | 0                | 0                                |           | 0      | 3             | 0                                | 3                | 0                   | 0                   | 0              | 0                                   |                      |
| Vermont:                  |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Barre                     | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| Massachusetts:            |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Boston                    | 4                | 0                                |           | 0      | 297           | 0                                | 9                | 0                   | 108                 | 0              | 0                                   | 3                    |
| Fall River                | 0                | 0                                |           | 0      | 30            | 0                                | 0                | 0                   | 4                   | 0              | 0                                   |                      |
| Springfield               | 0                | 0                                |           | 0      | 9             | 0                                | 0                | 0                   | 1                   | 0              | 0                                   |                      |
| Worcester                 | 0                | 0                                |           | 0      | 64            | 0                                | 8                | 0                   | 7                   | 0              | 0                                   | 5                    |
| Rhode Island:             |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Providence                | 0                | 0                                |           | 0      | 12            | 0                                | 1                | 0                   | 2                   | 0              | 0                                   | 9                    |
| Connecticut:              |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Bridgeport                | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                   | 1                   | 0              | 0                                   |                      |
| Hartford                  | 0                | 0                                |           | 0      | 5             | 0                                | 6                | 0                   | 2                   | 0              | 0                                   | 1                    |
| New Haven                 | 0                | 0                                |           | 0      | 11            | 1                                | 0                | 0                   | 4                   | 0              | 0                                   | 6                    |
| MIDDLE ATLANTIC           |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| New York:                 |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Buffalo                   | 0                | 0                                |           | 0      | 58            | 0                                | 9                | 0                   | 11                  | 0              | 0                                   | 1                    |
| New York                  | 8                | 3                                | 4         | 0      | 1,118         | 7                                | 50               | 1                   | 63                  | 0              | 0                                   | 19                   |
| Rochester                 | 0                | 0                                |           | 0      | 1             | 0                                | 2                | 0                   | 10                  | 0              | 0                                   | 1                    |
| Syracuse                  | 0                | 0                                |           | 0      | 20            | 0                                | 1                | 0                   | 4                   | 0              | 0                                   | 7                    |
| New Jersey:               |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Camden                    | 0                | 0                                |           | 0      | 42            | 0                                | 0                | 0                   | 3                   | 0              | 0                                   |                      |
| Newark                    | 0                | 0                                |           | 0      | 510           | 1                                | 1                | 0                   | 5                   | 0              | 0                                   | 6                    |
| Trenton                   | 0                | 0                                |           | 0      | 11            | 0                                | 1                | 0                   | 1                   | 0              | 1                                   |                      |
| Pennsylvania:             |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Philadelphia              | 3                | 0                                | 1         | 0      | 945           | 0                                | 12               | 0                   | 55                  | 0              | 3                                   | 7                    |
| Pittsburgh                | 0                | 0                                |           | 1      | 14            | 1                                | 5                | 0                   | 46                  | 0              | 0                                   | 5                    |
| Reading                   | 0                | 0                                |           | 0      | 11            | 0                                | 0                | 0                   | 13                  | 0              | 0                                   | 7                    |
| EAST NORTH CENTRAL        |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Ohio:                     |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Cincinnati                | 0                | 0                                |           | 0      | 119           | 2                                | 5                | 0                   | 11                  | 0              | 0                                   | 2                    |
| Cleveland                 | 0                | 0                                |           | 0      | 30            | 3                                | 6                | 0                   | 47                  | 0              | 0                                   | 5                    |
| Columbus                  | 0                | 0                                |           | 0      | 19            | 0                                | 0                | 1                   | 2                   | 0              | 0                                   |                      |
| Indiana:                  |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Fort Wayne                | 0                | 0                                |           | 0      | 5             | 0                                | 0                | 0                   | 9                   | 0              | 0                                   |                      |
| Indianapolis              | 0                | 0                                |           | 0      | 163           | 0                                | 4                | 0                   | 5                   | 0              | 0                                   | 1                    |
| South Bend                | 0                | 0                                |           | 0      | 4             | 0                                | 0                | 0                   | 1                   | 0              | 0                                   |                      |
| Terre Haute               | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| Illinois:                 |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Chicago                   | 0                | 0                                |           | 0      | 247           | 2                                | 24               | 0                   | 36                  | 0              | 0                                   | 15                   |
| Springfield               | 0                | 0                                |           | 0      |               | 0                                | 3                | 0                   | 3                   | 0              | 0                                   |                      |
| Michigan:                 |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Detroit                   | 0                | 4                                |           | 0      | 715           | 1                                | 9                | 0                   | 67                  | 0              | 0                                   | 12                   |
| Flint                     | 0                | 0                                |           | 0      | 9             | 0                                | 0                | 0                   | 2                   | 0              | 0                                   |                      |
| Grand Rapids              | 0                | 0                                |           | 0      | 15            | 0                                | 0                | 0                   | 12                  | 0              | 0                                   | 2                    |
| Wisconsin:                |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Kenosha                   | 0                | 0                                |           | 0      | 57            | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| Milwaukee                 | 0                | 0                                |           | 0      | 233           | 0                                | 3                | 0                   | 14                  | 0              | 0                                   | 3                    |
| Racine                    | 0                | 0                                |           | 0      | 26            | 0                                | 0                | 0                   | 1                   | 0              | 0                                   | 5                    |
| Superior                  | 0                | 0                                |           | 0      | 80            | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| WEST NORTH CENTRAL        |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Minnesota:                |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Duluth                    | 0                | 0                                |           | 0      | 90            | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| Minneapolis               | 0                | 0                                |           | 0      | 11            | 0                                | 1                | 0                   | 4                   | 0              | 0                                   | 4                    |
| St. Paul                  | 0                | 0                                |           | 0      | 50            | 0                                | 4                | 0                   | 1                   | 0              | 0                                   | 6                    |
| Missouri:                 |                  |                                  |           |        |               |                                  |                  |                     |                     |                |                                     |                      |
| Kansas City               | 0                | 0                                | 3         | 0      | 17            | 0                                | 4                | 0                   | 1                   | 0              | 0                                   | 2                    |
| St. Joseph                | 0                | 0                                |           | 0      | 8             | 0                                | 0                | 0                   | 0                   | 0              | 0                                   |                      |
| St. Louis                 | 9                | 0                                |           | 0      | 41            | 1                                | 7                | 0                   | 7                   | 0              | 0                                   | 12                   |

\*In some instances the figures include nonresident cases.

## City reports for week ended May 29, 1948—Continued

| Division, State, and City    | Diphtheria cases | Enecephalitis, infectious, cases | Influenza |        | Measles cases | Meningitis, meningococcus, cases | Pneumonia deaths | Poliovmyelitis cases | Scarlet fever cases | Smallpox cases | Typhoid and paratyphoid fever cases | Whooping cough cases |
|------------------------------|------------------|----------------------------------|-----------|--------|---------------|----------------------------------|------------------|----------------------|---------------------|----------------|-------------------------------------|----------------------|
|                              |                  |                                  | Cases     | Deaths |               |                                  |                  |                      |                     |                |                                     |                      |
| WEST NORTH CENTRAL—continued |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Nebraska:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Omaha.....                   | 0                | 0                                |           | 0      | 37            | 1                                | 1                | 0                    | 4                   | 0              | 0                                   |                      |
| Kansas:                      |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Wichita.....                 | 0                | 0                                |           | 0      | 3             | 0                                | 3                | 0                    | 1                   | 0              | 0                                   | 3                    |
| SOUTH ATLANTIC               |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Delaware:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Wilmington.....              | 1                | 0                                |           | 1      | 16            | 0                                | 4                | 0                    | 1                   | 0              | 0                                   |                      |
| Maryland:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Baltimore.....               | 1                | 0                                |           | 0      | 622           | 1                                | 7                | 0                    | 8                   | 0              | 0                                   | 2                    |
| Cumberland.....              | 3                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 6                   | 0              | 0                                   |                      |
| Frederick.....               | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| District of Columbia:        |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Washington.....              | 0                | 0                                |           | 0      | 138           | 0                                | 7                | 0                    | 0                   | 0              | 0                                   | 3                    |
| Virginia:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Lynchburg.....               | 0                | 0                                |           | 0      | 2             | 0                                | 0                | 0                    | 0                   | 0              | 0                                   | 1                    |
| Richmond.....                | 0                | 0                                |           | 0      | 3             | 1                                | 1                | 1                    | 1                   | 0              | 0                                   |                      |
| Roanoke.....                 | 0                | 0                                |           | 0      | 1             | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| West Virginia:               |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Charleston.....              | 0                | 0                                |           | 0      | 34            | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| Wheeling.....                | 1                | 0                                |           | 0      | 5             | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| North Carolina:              |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Raleigh.....                 | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   | 1                    |
| Wilmington.....              | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| Winston-Salem.....           | 0                | 0                                |           | 0      | 7             | 0                                | 3                | 0                    | 0                   | 0              | 0                                   | 2                    |
| South Carolina:              |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Charleston.....              | 1                | 0                                | 5         | 0      | 1             | 1                                | 0                | 0                    | 1                   | 0              | 0                                   | 5                    |
| Georgia:                     |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Atlanta.....                 | 0                | 0                                |           | 0      | 6             | 0                                | 3                | 1                    | 7                   | 0              | 1                                   |                      |
| Brunswick.....               | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| Savannah.....                | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 2                   | 0              | 0                                   | 2                    |
| Florida:                     |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Tampa.....                   | 0                | 0                                |           | 0      | 4             | 0                                | 0                | 1                    | 0                   | 0              | 0                                   | 3                    |
| EAST SOUTH CENTRAL           |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Tennessee:                   |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Memphis.....                 | 0                | 1                                |           | 1      | 25            | 0                                | 7                | 0                    | 0                   | 0              | 2                                   | 10                   |
| Nashville.....               | 0                | 0                                |           | 0      | 5             | 0                                | 2                | 0                    | 1                   | 0              | 0                                   | 2                    |
| Alabama:                     |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Birmingham.....              | 0                | 0                                |           | 0      | 5             | 0                                | 2                | 0                    | 0                   | 0              | 0                                   | 4                    |
| Mobile.....                  | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| WEST SOUTH CENTRAL           |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Arkansas:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Little Rock.....             | 0                | 0                                |           | 0      | 6             | 0                                | 5                | 0                    | 1                   | 0              | 0                                   | 1                    |
| Louisiana:                   |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| New Orleans.....             | 0                | 0                                | 2         | 1      | 3             | 1                                | 6                | 3                    | 1                   | 0              | 2                                   | 4                    |
| Shreveport.....              | 0                | 0                                |           | 0      | 0             | 0                                | 8                | 0                    | 0                   | 0              | 0                                   |                      |
| Oklahoma:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Oklahoma City.....           | 0                | 0                                |           | 0      | 11            | 0                                | 3                | 0                    | 0                   | 0              | 1                                   |                      |
| Texas:                       |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Dallas.....                  | 1                | 0                                | 1         | 1      | 68            | 0                                | 1                | 0                    | 3                   | 0              | 0                                   |                      |
| Galveston.....               | 0                | 0                                |           | 0      | 4             | 0                                | 3                | 0                    | 0                   | 0              | 0                                   | 1                    |
| Houston.....                 | 1                | 0                                |           | 0      |               | 0                                | 3                | 11                   | 1                   | 0              | 0                                   |                      |
| San Antonio.....             | 0                | 0                                |           | 0      | 5             | 0                                | 5                | 0                    | 1                   | 0              | 0                                   |                      |
| MOUNTAIN                     |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Montana:                     |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Billings.....                | 0                | 0                                |           | 0      |               | 0                                | 1                | 0                    | 0                   | 0              | 0                                   |                      |
| Great Falls.....             | 0                | 0                                |           | 0      |               | 0                                | 1                | 0                    | 0                   | 0              | 0                                   | 1                    |
| Helena.....                  | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   |                      |
| Missoula.....                | 0                | 0                                |           | 0      |               | 0                                | 0                | 0                    | 0                   | 0              | 0                                   | 2                    |
| Colorado:                    |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Denver.....                  | 1                | 0                                | 2         | 0      | 76            | 0                                | 6                | 0                    | 6                   | 0              | 0                                   | 8                    |
| Pueblo.....                  | 1                | 0                                |           | 0      | 116           | 0                                | 1                | 0                    | 2                   | 0              | 0                                   |                      |
| Utah:                        |                  |                                  |           |        |               |                                  |                  |                      |                     |                |                                     |                      |
| Salt Lake City.....          | 0                | 0                                |           | 0      | 187           | 0                                | 0                | 1                    | 0                   | 0              | 0                                   | 2                    |

## City reports for week ended May 29, 1948—Continued

| Division, State, and City                   | Diphtheria cases | Encephalitis, infectious, cases | Influenza |                 | Measles cases      | Meningitis, meningococcus, cases | Pneumonia deaths | Polio myelitis cases | Scarlet fever cases | Smallpox cases | Typhoid and paratyphoid fever cases | Whooping cough cases |
|---|------------------|---------------------------------|-----------|-----------------|--------------------|----------------------------------|------------------|----------------------|---------------------|----------------|-------------------------------------|----------------------|
|   |                  |                                 | Cases     | Deaths          |                    |                                  |                  |                      |                     |                |                                     |                      |
| PACIFIC                                     |                  |                                 |           |                 |                    |                                  |                  |                      |                     |                |                                     |                      |
| Washington:                                 |                  |                                 |           |                 |                    |                                  |                  |                      |                     |                |                                     |                      |
| Seattle.....                                | 0                | 0                               | -----     | 0               | -----              | 1                                | 5                | 0                    | 8                   | 0              | 0                                   | 3                    |
| Spokane.....                                | 0                | 0                               | -----     | 0               | 16                 | 0                                | 2                | 0                    | 2                   | 0              | 0                                   | -----                |
| California:                                 |                  |                                 |           |                 |                    |                                  |                  |                      |                     |                |                                     |                      |
| Los Angeles.....                            | 1                | 0                               | 3         | 2               | 392                | 0                                | 6                | 4                    | 20                  | 0              | 0                                   | 3                    |
| Sacramento.....                             | 0                | 0                               | -----     | 0               | 16                 | 0                                | 1                | 0                    | 1                   | 0              | 0                                   | 3                    |
| San Francisco.....                          | 3                | 1                               | -----     | 0               | 150                | 0                                | 3                | 0                    | 7                   | 0              | 0                                   | 6                    |
| Total.....                                  | 39               | 9                               | 21        | 7               | 7,067              | 25                               | 279              | 24                   | 649                 | 0              | 10                                  | 218                  |
| Corresponding week, 1947 <sup>1</sup> ..... | 48               | -----                           | 40        | 8               | 2,604              | -----                            | 256              | -----                | 627                 | 0              | 15                                  | 960                  |
| Average 1943-47 <sup>1</sup> .....          | 59               | -----                           | 37        | <sup>2</sup> 11 | <sup>3</sup> 4,169 | -----                            | <sup>2</sup> 275 | -----                | 1,137               | 0              | 14                                  | 698                  |

<sup>1</sup> Exclusive of Oklahoma City.<sup>2</sup> 3-year average, 1945-47.<sup>3</sup> 5-year median, 1943-47.

*Rates (annual basis) per 100,000 population, by geographic groups, for the 87 cities in the preceding table (latest available estimated population, 34,388,400)*

|                         | Diphtheria case rates | Encephalitis, infectious, case rates | Influenza  |             | Measles case rates | Meningitis, meningococcus, case rates | Pneumonia death rates | Pollomyelitis case rates | Scarlet fever case rates | Smallpox case rates | Typhoid and paratyphoid fever case rates | Whooping cough case rates |
|-------------------------|-----------------------|--------------------------------------|------------|-------------|--------------------|---------------------------------------|-----------------------|--------------------------|--------------------------|---------------------|--|---------------------------|
|                         |                       |                                      | Case rates | Death rates |                    |                                       |                       |                          |                          |                     |  |                           |
| New England.....        | 10.5                  | 0.0                                  | 0.0        | 0.0         | 1,134              | 2.6                                   | 73.2                  | 0.0                      | 340                      | 0.0                 | 0.0                                      | 63                        |
| Middle Atlantic.....    | 5.1                   | 1.4                                  | 2.3        | 0.5         | 1,264              | 4.2                                   | 37.5                  | 0.5                      | 98                       | 0.0                 | 1.9                                      | 25                        |
| East North Central..... | 0.0                   | 2.4                                  | 0.0        | 0.0         | 1,047              | 4.9                                   | 32.8                  | 0.6                      | 128                      | 0.0                 | 0.0                                      | 27                        |
| West North Central..... | 18.5                  | 0.0                                  | 6.2        | 0.0         | 530                | 4.1                                   | 41.2                  | 0.0                      | 37                       | 0.0                 | 0.0                                      | 56                        |
| South Atlantic.....     | 11.4                  | 0.0                                  | 8.2        | 1.6         | 1,371              | 4.9                                   | 40.9                  | 4.9                      | 42                       | 0.0                 | 1.6                                      | 31                        |
| East South Central..... | 0.0                   | 5.9                                  | 0.0        | 5.9         | 207                | 0.0                                   | 64.9                  | 0.0                      | 6                        | 0.0                 | 11.8                                     | 94                        |
| West South Central..... | 5.1                   | 0.0                                  | 7.6        | 5.1         | 246                | 2.5                                   | 86.4                  | 35.6                     | 18                       | 0.0                 | 7.6                                      | 15                        |
| Mountain.....           | 16.5                  | 0.0                                  | 16.5       | 0.0         | 3,131              | 0.0                                   | 74.3                  | 8.3                      | 66                       | 0.0                 | 0.0                                      | 107                       |
| Pacific.....            | 6.6                   | 1.6                                  | 4.9        | 3.3         | 944                | 1.6                                   | 28.0                  | 6.6                      | 62                       | 0.0                 | 0.0                                      | 25                        |
| Total.....              | 5.9                   | 1.4                                  | 3.2        | 1.1         | 1,075              | 3.8                                   | 42.4                  | 3.6                      | 99                       | 0.0                 | 1.5                                      | 331                       |

Dysentery, amebic.—Cases: New York 14; Detroit 11; Memphis 9; New Orleans 7; Los Angeles 1.

Dysentery, bacillary.—Cases: Worcester 2; New York 3; Philadelphia 1; Chicago 4; Los Angeles 2.

Dysentery unspecified.—Cases: San Antonio 134.

Typhus fever.—Cases: New Orleans 2.

### PLAGUE INFECTION IN CATRON AND RIO ARRIBA COUNTIES, NEW MEXICO

Under date of June 3, plague infection was reported proved in tissue and pools of fleas from rodents taken in Catron and Rio Arriba Counties, New Mexico, as follows:

*Catron County.*—A pool of 29 fleas from 8 spotted ground squirrels, *Citellus spilosoma major*, taken May 14 on State Highway No. 12, 10 miles southwest of Datil.

*Rio Arriba County.*—In tissue and pools of fleas from prairie dogs, *Cynomys gunnisoni gunnisoni*, as follows: A pool of 35 fleas from 14 prairie dogs taken May 17, 10 miles west of Chama on a ranch near U. S. Highway No. 84; in tissue and a pool of 34 fleas from 1 prairie dog taken May 24, on a ranch 13 miles west of Parkview on State Highway No. 95; in tissue and a pool of 21 fleas from 1 prairie dog found dead on a ranch 9 miles west of Parkview on State Highway No. 95; in tissue and a pool of 5 fleas from 1 sick prairie dog also taken at the last named location.

## TERRITORIES AND POSSESSIONS

### Panama Canal Zone

*Notifiable diseases—April 1948.*—During the month of April 1948, certain notifiable diseases were reported in the Panama Canal Zone and terminal cities as follows:

| Disease                    | Residence <sup>1</sup> |        |       |        |            |        |                                      |        |                 |        |
|----------------------------|------------------------|--------|-------|--------|------------|--------|--------------------------------------|--------|-----------------|--------|
|                            | Panama City            |        | Colon |        | Canal Zone |        | Outside the Zone and terminal cities |        | Total           |        |
|                            | Cases                  | Deaths | Cases | Deaths | Cases      | Deaths | Cases                                | Deaths | Cases           | Deaths |
| Chickenpox.....            | 5                      | -----  | ----- | -----  | 5          | -----  | 7                                    | -----  | 17              | -----  |
| Diphtheria.....            | 2                      | -----  | 2     | 1      | 1          | -----  | -----                                | -----  | 5               | 1      |
| Dysentery:                 | -----                  | -----  | ----- | -----  | -----      | -----  | -----                                | -----  | -----           | -----  |
| Amebic.....                | 1                      | -----  | ----- | -----  | -----      | -----  | 3                                    | -----  | 4               | -----  |
| Bacillary.....             | -----                  | -----  | ----- | -----  | 2          | -----  | 1                                    | -----  | 3               | -----  |
| German measles.....        | -----                  | -----  | ----- | -----  | -----      | -----  | 2                                    | -----  | 2               | -----  |
| Hepatitis, infectious..... | 1                      | -----  | ----- | -----  | 6          | -----  | 1                                    | -----  | 8               | -----  |
| Malaria <sup>2</sup> ..... | 2                      | -----  | 1     | -----  | 7          | -----  | 89                                   | 1      | 99              | 1      |
| Measles.....               | 7                      | -----  | ----- | -----  | 3          | -----  | 11                                   | -----  | 21              | -----  |
| Mumps.....                 | -----                  | -----  | ----- | -----  | -----      | -----  | 1                                    | -----  | 1               | -----  |
| Pneumonia.....             | -----                  | 5      | ----- | 4      | 15         | -----  | -----                                | 3      | <sup>3</sup> 15 | 12     |
| Polioomyelitis.....        | -----                  | -----  | ----- | -----  | 1          | -----  | -----                                | -----  | 1               | -----  |
| Tuberculosis.....          | -----                  | 19     | ----- | 6      | 2          | -----  | -----                                | 3      | <sup>3</sup> 2  | 28     |
| Typhoid fever.....         | 1                      | -----  | ----- | -----  | -----      | -----  | -----                                | -----  | 1               | -----  |
| Yaws.....                  | -----                  | -----  | ----- | -----  | 1          | -----  | -----                                | -----  | 1               | -----  |

<sup>1</sup> If place of infection is known, cases are so listed instead of by residence.

<sup>2</sup> 4 recurrent cases.

<sup>3</sup> In the Canal Zone only.

# FOREIGN REPORTS

## CANADA

*Provinces—Communicable diseases—Week ended May 15, 1948.*—During the week ended May 15, 1948, cases of certain communicable diseases were reported by the Dominion Bureau of Statistics of Canada as follows:

| Disease                       | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Total |
|-------------------------------|----------------------|-------------|---------------|--------|---------|----------|--------------|---------|------------------|-------|
| Chickenpox                    |                      | 71          | 1             | 239    | 396     | 77       | 20           | 20      | 154              | 978   |
| Diphtheria                    |                      |             |               | 9      | 5       |          | 1            |         |                  | 15    |
| Dysentery, bacillary          |                      |             |               |        | 1       |          |              |         |                  | 1     |
| German measles                |                      |             |               | 101    | 10      |          | 2            | 10      | 18               | 141   |
| Influenza                     |                      | 13          |               |        | 10      | 13       |              |         | 1                | 37    |
| Measles                       |                      | 6           | 1             | 546    | 1,045   | 18       | 5            | 65      | 212              | 1,898 |
| Meningitis, meningococcus     |                      |             | 1             |        | 2       |          |              |         |                  | 3     |
| Mumps                         |                      | 3           | 1             | 332    | 228     | 56       | 70           | 54      | 11               | 755   |
| Poliomyelitis                 |                      |             |               |        | 2       |          |              |         |                  | 2     |
| Scarlet fever                 |                      |             | 3             | 61     | 75      | 7        |              | 3       | 6                | 155   |
| Tuberculosis (all forms)      |                      | 3           | 11            | 114    | 45      | 40       | 5            | 2       | 70               | 290   |
| Typhoid and paratyphoid fever |                      |             |               | 13     | 1       |          | 1            |         |                  | 15    |
| Undulant fever                |                      |             |               |        | 1       |          |              | 2       | 2                | 5     |
| Veneral diseases:             |                      |             |               |        |         |          |              |         |                  |       |
| Gonorrhea                     |                      | 7           | 8             | 159    | 78      | 39       | 20           | 26      | 62               | 399   |
| Syphilis                      |                      | 5           | 5             | 59     | 48      | 5        | 8            | 5       | 9                | 144   |
| Whooping cough                |                      | 15          |               | 51     | 13      | 1        | 6            | 47      | 2                | 135   |

## WORLD DISTRIBUTION OF CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

From consular reports, international health organizations, medical officers of the Public Health Service, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

### CHOLERA

(Cases)

NOTE.—Since many of the figures in the following tables are from weekly reports, the accumulated totals are for approximate dates.

| Place     | January-<br>March<br>1948 | April<br>1948 | May 1948—week ended— |       |       |     |    |
|-----------|---------------------------|---------------|----------------------|-------|-------|-----|----|
|           |                           |               | 1                    | 8     | 15    | 22  | 29 |
| AFRICA    |                           |               |                      |       |       |     |    |
| Egypt     | 1                         |               |                      |       |       |     |    |
| Cairo     | 1                         |               |                      |       |       |     |    |
| ASIA      |                           |               |                      |       |       |     |    |
| Burma     | 2                         |               | 2                    |       |       | 3   |    |
| Rangoon   |                           |               | 2                    |       |       |     |    |
| India     | 25,400                    | 12,201        | 4,000                | 3,264 | 1,707 |     |    |
| Ahmadabad | 2                         |               |                      |       |       |     |    |
| Alleppey  | 1                         |               |                      |       |       |     |    |
| Calcutta  | 2,180                     | 1,352         | 401                  | 435   | 433   | 310 |    |
| Cawnpore  | 14                        | 8             | 1                    |       |       |     |    |
| Cocanada  | 2                         |               |                      |       |       |     |    |
| Colachel  | 12                        |               |                      |       |       |     |    |
| Cuddalore | 12                        |               |                      |       |       |     |    |

See footnotes at end of table.



## CHOLERA—Continued

| Place               | January-<br>March<br>1948 | April<br>1948 | May 1948—week ended— |       |      |      |    |
|---------------------|---------------------------|---------------|----------------------|-------|------|------|----|
|                     |                           |               | 1                    | 8     | 15   | 22   | 29 |
| ASIA—continued      |                           |               |                      |       |      |      |    |
| India—continued     |                           |               |                      |       |      |      |    |
| Kilakarai           | 21                        |               |                      |       |      |      |    |
| Lucknow             | 9                         | 3             | 3                    | 1     | 2    |      |    |
| Madras              | 18                        | 11            | 1                    | 1     | 3    | 6    |    |
| Nagpur              | 1                         | 3             |                      |       |      |      |    |
| Nagapatam           | 16                        |               |                      |       |      |      |    |
| New Delhi           |                           | 1             | 1                    |       |      |      |    |
| Tuticorin           | 16                        |               |                      |       |      |      |    |
| Vizagapatam         | 1                         |               |                      |       |      |      |    |
| India (French):     |                           |               |                      |       |      |      |    |
| Chandernagor        | 17                        | 4             |                      |       |      |      |    |
| Karikal             | 300                       |               |                      |       |      |      |    |
| Pondicherry         | 59                        |               |                      |       |      |      |    |
| Indochina (French): |                           |               |                      |       |      |      |    |
| Cambodia            | 803                       | 169           |                      |       | 2 48 | 3 18 |    |
| Cochinchina         | 171                       | 273           | 12                   |       | 2 48 | 3 29 |    |
| Chaudoc             | 2                         |               |                      |       |      |      |    |
| Cholon              | 5                         | 16            |                      | 8     |      |      |    |
| Giadinh             | 4                         | 16            |                      | 3     |      |      |    |
| Longxuyen           | 7                         |               |                      |       |      |      |    |
| Mytho               | 12                        | 22            |                      | 9     |      |      |    |
| Rachgia             | 97                        | 27            |                      | 2     |      |      |    |
| Saigon              | 23                        | 57            | 12                   | 13    | 11   | 5    |    |
| Laos                | 12                        |               |                      |       |      |      |    |
| Tonkin              | 1                         |               |                      |       |      |      |    |
| Pakistan            | 8,240                     | 7,139         | 1,349                | 1,941 | 29   | 16   |    |
| Chittagong          | 28                        | 2             | 5 1                  |       |      | 2    |    |
| Karachi             |                           |               |                      |       |      | 2    |    |
| Lahore              | 2                         | 27            | 24                   | 20    | 29   | 14   |    |
| Siam                | 31                        | 5             | 1                    |       | 1    |      |    |
| Syria               | 3                         |               |                      |       |      |      |    |

<sup>1</sup> Includes imported cases.

<sup>2</sup> For the period May 1-10, 1948.

<sup>3</sup> For the period May 11-20, 1948.

<sup>4</sup> Deaths.

<sup>5</sup> Imported.

## PLAGUE

(Cases)

|                       |        |       |     |     |     |     |     |
|-----------------------|--------|-------|-----|-----|-----|-----|-----|
| AFRICA                |        |       |     |     |     |     |     |
| Belgian Congo         | 2      | 1     |     |     | 6   |     |     |
| British East Africa:  |        |       |     |     |     |     |     |
| Kenya                 | 15     | 1     |     |     |     |     |     |
| Tanganyika            | 190    | (1)   | (1) | (1) | (1) | (1) | (1) |
| Madagascar            | 152    | 36    |     |     | 2 5 |     |     |
| Tananarive            | 10     | 6     |     |     |     |     |     |
| Rhodesia, Northern    | 25     | 1     |     |     |     |     |     |
| Union of South Africa | 35     | 2     |     |     |     |     |     |
| ASIA                  |        |       |     |     |     |     |     |
| Burma                 | 402    | 50    | 6   | 3   |     |     |     |
| Mandalay              | 13     | 3     | 1   |     |     |     |     |
| Rangoon               | 11     | 1     |     | 1   | 1   |     |     |
| China:                |        |       |     |     |     |     |     |
| Chekiang Province     | 3      | 3     |     |     |     |     |     |
| Wenchow               | 2      | 3     |     |     |     |     |     |
| Fukien Province       | 49     | 8     |     |     | 2 1 |     |     |
| Kiangsi Province      | 16     |       |     |     |     |     |     |
| Kwangtung Province    | 29     | 15    |     |     |     |     |     |
| Yunnan Province       | 31     |       |     |     |     |     |     |
| India                 | 15,335 | 3,761 | 372 | 117 | 54  |     |     |
| Indochina (French):   |        |       |     |     |     |     |     |
| Annam                 | 131    | 3     |     |     | 2 1 |     |     |
| Cochinchina           | 23     | 17    |     |     |     |     |     |
| Laos                  | 2      |       |     |     |     |     |     |
| Java                  | 4      |       |     |     |     |     |     |
| Pakistan              |        |       | 11  |     |     |     |     |
| Siam                  | 99     | 3     |     |     |     |     |     |
| EUROPE                |        |       |     |     |     |     |     |
| Portugal: Azores      | 7      | 1     |     |     |     |     |     |

See footnotes at end of table.

## PLAGUE—Continued

| Place  | January-<br>March<br>1948 | April<br>1948 | May 1948—week ended— |   |    |    |    |
|--|---------------------------|---------------|----------------------|---|----|----|----|
|  |                           |               | 1                    | 8 | 15 | 22 | 29 |
| SOUTH AMERICA  |                           |               |                      |   |    |    |    |
| Argentina:   |                           |               |                      |   |    |    |    |
| Buenos Aires Province .....                            | 5                         |               |                      |   |    |    |    |
| Ecuador  | 19                        | 3             |                      |   |    |    |    |
| Chimborazo Province .....                              | 1                         |               |                      |   |    |    |    |
| Loja Province .....                                    | 1                         | 3             |                      |   |    |    |    |
| Peru:  |                           |               |                      |   |    |    |    |
| Huacho Department .....                                | 1                         |               |                      |   |    |    |    |
| Lima Department .....                                  | 4                         |               |                      |   |    |    |    |
| Venezuela:   |                           |               |                      |   |    |    |    |
| Aragua State .....                                     |                           |               | 7                    |   |    |    |    |
| OCEANIA  |                           |               |                      |   |    |    |    |
| Hawaii Territory: Plague-infected rats <sup>7</sup> .. | 5                         |               |                      |   |    |    |    |

<sup>1</sup> For the period Apr. 1–May 25, 1948, 73 cases of plague (not distributed by weeks) were reported in Tanganyika.

<sup>2</sup> For the period May 1–10, 1948.

<sup>3</sup> Includes 4 cases of pneumonic plague.

<sup>4</sup> Includes imported cases.

<sup>5</sup> Includes 4 imported cases.

<sup>6</sup> Imported.

<sup>7</sup> Plague infection was also reported in Hawaii Territory, under date of Feb. 27, 1948, in a mass inoculation of tissue from 19 rats.

## SMALLPOX

(Cases)

(P=present)

|                                 |                  |                  |                 |                |                  |                 |  |
|---------------------------------|------------------|------------------|-----------------|----------------|------------------|-----------------|--|
| <b>AFRICA</b>                   |                  |                  |                 |                |                  |                 |  |
| Algeria                         | 112              | 40               |                 |                | <sup>1</sup> 13  |                 |  |
| Angola                          | 54               | 2                |                 |                |                  |                 |  |
| Basutoland                      | 3                |                  |                 |                |                  |                 |  |
| Belgian Congo                   | <sup>2</sup> 627 | <sup>2</sup> 293 | <sup>2</sup> 67 |                |                  |                 |  |
| British East Africa:            |                  |                  |                 |                |                  |                 |  |
| Kenya                           | 65               | 20               |                 | 1              |                  |                 |  |
| Nyasaland                       | 1, 208           | 319              | 142             | 19             |                  |                 |  |
| Tanganyika                      | 454              | 95               |                 | 12             |                  |                 |  |
| Uganda                          | 116              | 44               | 12              |                |                  |                 |  |
| Cameroon (French)               | 2                | 1                |                 |                |                  |                 |  |
| Dahomey                         | 182              | 15               |                 |                | <sup>1</sup> 2   | <sup>3</sup> 20 |  |
| Egypt                           | 207              | 125              | 4               | 13             | 17               |                 |  |
| Eritrea                         | 5                | 4                |                 |                |                  |                 |  |
| French Equatorial Africa        | 10               |                  |                 |                |                  |                 |  |
| French Guinea                   | 68               | 47               |                 |                | <sup>1</sup> 6   |                 |  |
| French West Africa: Haute-Volta | 282              | 93               |                 |                | <sup>1</sup> 15  | <sup>3</sup> 7  |  |
| Gambia                          | 19               | 5                |                 | 1              |                  |                 |  |
| Gold Coast                      | 437              | 230              | 38              | 21             | 10               |                 |  |
| Ivory Coast                     | 199              | 115              |                 |                | <sup>1</sup> 105 | <sup>3</sup> 64 |  |
| Libya                           | 77               | 152              | 6               |                | 3                | 14              |  |
| Mauritania                      | 1                |                  |                 |                |                  |                 |  |
| Morocco (French)                | 13               | 3                |                 |                |                  | <sup>3</sup> 4  |  |
| Mozambique                      | 22               | 2                |                 |                |                  |                 |  |
| Nigeria                         | 316              |                  |                 |                |                  |                 |  |
| Niger Territory                 | 220              | 25               |                 |                | <sup>1</sup> 9   |                 |  |
| Rhodesia:                       |                  |                  |                 |                |                  |                 |  |
| Northern                        | <sup>4</sup> 103 | ( <sup>9</sup> ) |                 |                |                  | 2               |  |
| Southern                        | 190              |                  |                 |                |                  |                 |  |
| Senegal                         | 3                |                  |                 |                |                  |                 |  |
| Sierra Leone                    | 83               | 42               |                 |                |                  |                 |  |
| Sudan (Anglo-Egyptian)          | <sup>2</sup> 359 | <sup>2</sup> 77  | 50              | 65             | 164              |                 |  |
| Sudan (French)                  | 14               | 2                |                 |                |                  |                 |  |
| Swaziland                       |                  | 1                |                 |                |                  |                 |  |
| Togo (British)                  | 9                |                  |                 |                |                  |                 |  |
| Togo (French)                   | 33               | 34               |                 |                | <sup>1</sup> 1   |                 |  |
| Tunisia                         | 465              | 32               |                 |                |                  |                 |  |
| Union of South Africa           | 16               | P                |                 | P              |                  |                 |  |
| <b>ASIA</b>                     |                  |                  |                 |                |                  |                 |  |
| Arabia                          | <sup>6</sup> 2   | 3                | 2               |                |                  |                 |  |
| British North Borneo            | 1                |                  |                 |                |                  |                 |  |
| Burma                           | 1, 310           | 579              | 135             | 100            | 14               | 52              |  |
| Ceylon                          | <sup>7</sup> 7   |                  |                 | <sup>6</sup> 1 |                  |                 |  |
| China                           | 2, 235           | 530              | 92              | 52             | 73               | 72              |  |

See footnotes at end of table.

## SMALLPOX—Continued

| Place                         | January-<br>March<br>1948 | April<br>1948     | May 1948—week ended— |                  |                  |                   |    |
|-------------------------------|---------------------------|-------------------|----------------------|------------------|------------------|-------------------|----|
|                               |                           |                   | 1                    | 8                | 15               | 22                | 29 |
| ASIA—continued                |                           |                   |                      |                  |                  |                   |    |
| India.....                    | 24,745                    | 11,490            | 2,731                | 2,251            | <sup>8</sup> 85  | <sup>8</sup> 68   |    |
| India (French).....           | 5                         |                   | 1                    |                  |                  |                   |    |
| Indochina (French).....       | 1,572                     | 222               |                      |                  | <sup>1</sup> 196 | <sup>2</sup> 165  |    |
| Iran.....                     | 356                       | 43                | 12                   | 1                |                  |                   |    |
| Iraq.....                     | 350                       | 212               | 19                   | 22               | 14               | 17                |    |
| Japan.....                    | 8                         | 6                 | 1                    |                  |                  |                   |    |
| Lebanon.....                  | 57                        |                   |                      |                  |                  |                   |    |
| Malay States (Federated)..... | 318                       | 26                |                      |                  |                  |                   |    |
| Manchuria.....                | 30                        |                   |                      |                  |                  |                   |    |
| Pakistan.....                 | 7,420                     | 940               | <sup>8</sup> 37      | <sup>8</sup> 11  | <sup>8</sup> 12  | <sup>8</sup> 17   |    |
| Palestine.....                | 8                         |                   |                      |                  |                  |                   |    |
| Siam.....                     | 391                       | 43                | 2                    | 15               |                  |                   |    |
| Straits Settlements.....      |                           | 3                 | 3                    | 1                | 1                | 1                 |    |
| Syria.....                    | 29                        | 3                 |                      | 2                | 1                |                   |    |
| Trans-Jordan.....             | 6                         | 7                 |                      |                  |                  |                   |    |
| EUROPE                        |                           |                   |                      |                  |                  |                   |    |
| France.....                   | 3                         |                   |                      |                  |                  |                   |    |
| Germany.....                  | 3                         |                   |                      |                  |                  |                   |    |
| Portugal.....                 | 51                        | 8                 |                      |                  |                  |                   |    |
| Spain.....                    | 17                        | 1                 |                      |                  |                  |                   |    |
| Canary Islands.....           | 9                         |                   |                      |                  |                  |                   |    |
| NORTH AMERICA                 |                           |                   |                      |                  |                  |                   |    |
| Guatemala.....                | 1                         |                   |                      |                  |                  |                   |    |
| Mexico.....                   | 190                       | 26                |                      | <sup>8</sup> 9   |                  |                   |    |
| SOUTH AMERICA                 |                           |                   |                      |                  |                  |                   |    |
| Argentina.....                | 7                         |                   |                      |                  |                  |                   |    |
| Bolivia.....                  | 31                        |                   |                      |                  |                  |                   |    |
| Brazil.....                   | 10                        | 1                 |                      |                  | 5                |                   |    |
| Chile.....                    | 3                         | 1                 |                      | 1                |                  |                   |    |
| Colombia.....                 | 1,897                     | <sup>10</sup> 119 | <sup>10</sup> 18     | <sup>10</sup> 15 | <sup>10</sup> 18 |                   |    |
| Ecuador.....                  | <sup>2</sup> 1,458        | <sup>2</sup> 264  |                      |                  | <sup>11</sup> 5  |                   |    |
| Paraguay.....                 | <sup>12</sup> 52          | <sup>12</sup> 11  |                      |                  |                  |                   |    |
| Peru.....                     | 55                        | 22                |                      |                  |                  |                   |    |
| Trinidad.....                 |                           |                   |                      |                  | <sup>12</sup> 8  |                   |    |
| Venezuela.....                | <sup>12</sup> 1,244       | <sup>12</sup> 239 | <sup>12</sup> 25     |                  | <sup>12</sup> 63 | <sup>12</sup> 119 |    |

<sup>1</sup> For the period May 1-10, 1948. <sup>2</sup> Includes alastrim. <sup>3</sup> For the period May 11-20, 1948. <sup>4</sup> For January-February 1948. <sup>5</sup> During the period Mar. 1-Apr. 30, 1948, 74 deaths from smallpox were reported in Northern Rhodesia. <sup>6</sup> Imported. <sup>7</sup> Includes 6 imported cases. <sup>8</sup> From ports only. <sup>9</sup> For the period Apr. 25-May 8, 1948. <sup>10</sup> For Cartagena only. <sup>11</sup> For Quito only. <sup>12</sup> Alastrim. <sup>13</sup> For the period May 1-15, 1948.

## TYPHUS FEVER\*

[Cases]

(P=present)

|  |                |                |    |    |    |    |  |
|--|----------------|----------------|----|----|----|----|--|
| <b>AFRICA</b>                            |                |                |    |    |    |    |  |
| Algeria.....                             | 91             | 32             |    | 4  |    |    |  |
| Basutoland.....                          | 5              | 1              |    |    |    |    |  |
| Belgian Congo.....                       | 59             | 43             | 6  |    |    |    |  |
| British East Africa:                     |                |                |    |    |    |    |  |
| Kenya <sup>1</sup> .....                 | 19             | 4              |    |    |    |    |  |
| Egypt.....                               | 58             | 105            | 29 |    | 2  |    |  |
| Eritrea.....                             | 15             | 5              | 5  | 1  |    |    |  |
| Gold Coast.....                          | 2              |                |    |    |    |    |  |
| Libya.....                               | 74             | 103            | 7  | 14 | 17 | 12 |  |
| Morocco (French).....                    | 43             | 11             |    |    |    |    |  |
| Morocco (Spanish).....                   | <sup>2</sup> 1 | 1              |    |    |    |    |  |
| Mozambique.....                          |                | 2              |    |    |    |    |  |
| Nigeria.....                             | 2              |                |    |    |    |    |  |
| Rhodesia (Southern).....                 | 1              |                |    |    |    |    |  |
| Senegal.....                             | <sup>2</sup> 1 |                |    |    |    |    |  |
| Sierra Leone.....                        | <sup>2</sup> 3 | <sup>2</sup> 2 |    |    |    |    |  |
| Somalia.....                             | 1              |                |    |    |    |    |  |
| Tunisia <sup>1</sup> .....               | 230            | 159            |    |    |    |    |  |
| Union of South Africa <sup>1</sup> ..... | 139            | P              | P  | P  | P  |    |  |
| <b>ASIA</b>                              |                |                |    |    |    |    |  |
| Burma.....                               | 5              |                |    |    |    |    |  |
| China <sup>1</sup> .....                 | 39             | 12             |    |    |    |    |  |
| Indochina (French) <sup>1</sup> .....    | 6              | 10             |    |    |    | 4  |  |
| Iran <sup>1</sup> .....                  | 51             | 20             | 3  |    |    |    |  |
| Iraq.....                                | 51             | 28             | 15 | 11 | 5  | 1  |  |
| Japan.....                               | 237            | 156            | 11 |    |    |    |  |

See footnotes at end of table.

## TYPHUS FEVER—Continued

| Place   | January-March 1948 | April 1948 | May 1948—week ended— |                 |                 |    |                 |
|---|--------------------|------------|----------------------|-----------------|-----------------|----|-----------------|
|   |                    |            | 1                    | 8               | 15              | 22 | 29              |
| ASIA—continued                                    |                    |            |                      |                 |                 |    |                 |
| Manchuria.....                                    | 5                  |            |                      |                 |                 |    |                 |
| Pakistan.....                                     |                    |            | 5                    | 16              |                 |    |                 |
| Palestine <sup>1</sup> .....                      | 12                 |            |                      |                 |                 |    |                 |
| Philippine Islands.....                           | <sup>2</sup> 1     |            |                      |                 |                 |    |                 |
| Straits Settlements <sup>1</sup> .....            | 4                  | 2          | 1                    | 1               |                 |    |                 |
| Syria <sup>1</sup> .....                          | 13                 | 2          |                      | 4               | 8               |    |                 |
| Trans-Jordan.....                                 | 20                 | 10         | 3                    | 3               |                 | 2  |                 |
| Turkey (see Turkey in Europe).                    |                    |            |                      |                 |                 |    |                 |
| EUROPE  |                    |            |                      |                 |                 |    |                 |
| Bulgaria.....                                     | 346                | 198        |                      |                 |                 |    |                 |
| Czechoslovakia.....                               | 5                  | 1          |                      |                 |                 |    |                 |
| France.....                                       |                    | 1          |                      |                 |                 |    |                 |
| Germany.....                                      | 4                  | 1          |                      |                 | 1               | 1  |                 |
| Great Britain: Island of Malta <sup>2</sup> ..... | 8                  |            |                      |                 |                 |    |                 |
| Greece <sup>1</sup> .....                         | 47                 | 8          |                      | 3               | 1               |    | 2               |
| Hungary.....                                      | 48                 | 8          | 2                    |                 | 2               |    |                 |
| Italy <sup>1</sup> .....                          | 21                 | 21         |                      |                 | <sup>3</sup> 13 |    |                 |
| Sicily <sup>4</sup> .....                         | 5                  |            |                      |                 |                 |    |                 |
| Netherlands.....                                  | <sup>2</sup> 1     |            |                      |                 |                 |    |                 |
| Poland.....                                       | 90                 | 40         |                      |                 | 2               |    |                 |
| Rumania <sup>1</sup> .....                        | 19,403             | 1,018      |                      |                 |                 |    |                 |
| Spain.....  | 1                  | 1          |                      |                 |                 |    |                 |
| Turkey.....                                       | 159                | 39         | 6                    | 10              | 4               | 2  |                 |
| Yugoslavia.....                                   | 258                | 133        | 7                    | 8               |                 |    |                 |
| NORTH AMERICA                                     |                    |            |                      |                 |                 |    |                 |
| Costa Rica <sup>2</sup> .....                     | 1                  |            |                      |                 |                 |    |                 |
| Cuba <sup>2</sup> .....                           | 8                  | 1          |                      |                 |                 |    |                 |
| Guatemala.....                                    | 18                 |            |                      |                 |                 |    |                 |
| Jamaica <sup>2</sup> .....                        | 2                  | 3          |                      |                 |                 |    |                 |
| Mexico <sup>1</sup> .....                         | 253                | 32         | 1                    | 2               |                 | 1  |                 |
| Panama Canal Zone.....                            | 1                  |            |                      |                 |                 |    |                 |
| Puerto Rico <sup>2</sup> .....                    | 8                  | 2          | 1                    |                 | 3               |    |                 |
| SOUTH AMERICA                                     |                    |            |                      |                 |                 |    |                 |
| Bolivia.....                                      | <sup>5</sup> 13    | 36         |                      |                 |                 |    | <sup>6</sup> 41 |
| Brazil.....                                       | 62                 | 9          | 5                    | 3               |                 |    |                 |
| Chile <sup>1</sup> .....                          | <sup>7</sup> 75    |            |                      | <sup>8</sup> 75 | 1               |    |                 |
| Colombia.....                                     | 825                |            |                      |                 |                 |    |                 |
| Curaçao <sup>2</sup> .....                        | 11                 |            |                      |                 |                 |    |                 |
| Ecuador <sup>1</sup> .....                        | 120                | 50         |                      |                 |                 |    |                 |
| Venezuela.....                                    | 28                 | 12         |                      |                 | <sup>9</sup> 24 | 1  |                 |
| OCEANIA   |                    |            |                      |                 |                 |    |                 |
| Australia <sup>2</sup> .....                      | 78                 | 16         | 5                    |                 |                 |    |                 |
| Hawaii Territory.....                             | 2                  | 3          |                      |                 |                 |    |                 |
| New Caledonia.....                                | 1                  |            |                      |                 |                 |    |                 |

\* Reports from some areas are probably murine type, while others probably include both murine and ouse-borne types.

<sup>1</sup> Includes murine type.

<sup>2</sup> Murine type.

<sup>3</sup> For the period May 1-10, 1948.

<sup>4</sup> For the period Dec. 1-31, 1947, 16 cases of typhus fever were reported in Sicily.

<sup>5</sup> Includes 9 deaths reported as cases.

<sup>6</sup> For the period May 1-24, 1948.

<sup>7</sup> For the period Jan. 1-Mar. 6, 1948.

<sup>8</sup> For the period Mar. 7-May 8, 1948.

<sup>9</sup> For the period Apr. 18-May 15, 1948.

## YELLOW FEVER

[C indicates cases; D, deaths]

|                              |   |   |  |  |  |  |  |
|------------------------------|---|---|--|--|--|--|--|
| <b>AFRICA</b>                |   |   |  |  |  |  |  |
| Ivory Coast:                 |   |   |  |  |  |  |  |
| Gagno.....                   | C | 1 |  |  |  |  |  |
| <b>SOUTH AMERICA</b>         |   |   |  |  |  |  |  |
| Colombia:                    |   |   |  |  |  |  |  |
| Antioquia Department.....    | D | 5 |  |  |  |  |  |
| Boyaca Department.....       | D | 1 |  |  |  |  |  |
| Caldas Department.....       | D | 2 |  |  |  |  |  |
| Cundinamarca Department..... | D | 7 |  |  |  |  |  |
| Intendencia of Meta.....     | D | 3 |  |  |  |  |  |